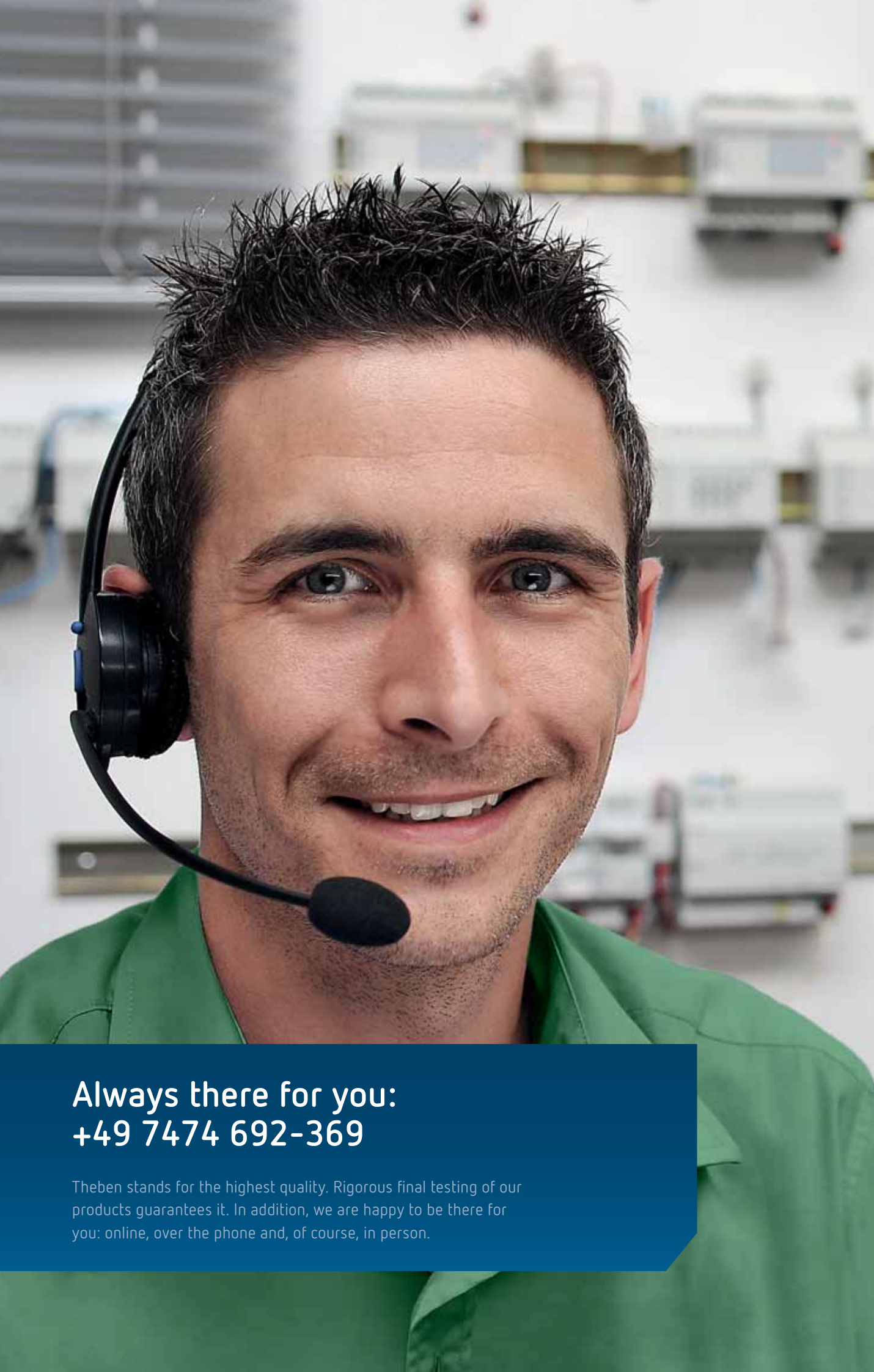


Save energy – increase comfort
Catalogue 2014/15





**Always there for you:
+49 7474 692-369**

Theben stands for the highest quality. Rigorous final testing of our products guarantees it. In addition, we are happy to be there for you: online, over the phone and, of course, in person.



Efficient distribution

Theben stands for a clear commitment to the three-stage distribution approach via wholesale and retail outlets. Our capacious central warehouse guarantees our goods are ready for delivery at all times.



Reliable customer service

You can rely on us – even after the guarantee period expires: when needed, our customer service provides you with rapid and inexpensive repair. And you will immediately receive the spare parts requested – even for older devices.



Effective training

You can never have enough knowledge: especially about our products. We offer our customers a broad range of training options – at our own premises in Haigerloch or also in your locality with our sales partners. The entire Theben training program can be found at: www.theben.de/en/training



The most important trade fairs

You can find us at the most important trade fairs. There you can find out everything about our new products. Drop by: We look forward to your visit:

light+building, Frankfurt, 30/03–04/04/2014

ELECTRO-TEC, Bern, 14/05–15/05/2014

belektro, Berlin, 15/10–17/10/2014

GET Nord, Hamburg, 20/11–22/11/2014

SPS, Nürnberg, 25/11–27/11/2014



Personal connection

Many questions can't wait. Our experts help you quickly and without fuss. Monday to Friday from 7.00 am to 6.00 pm, Friday to 4.00 pm on the telephone. Or immediately by email.

↳ Telephone hotline: +49 7474 692-369

↳ Email hotline: hotline@theben.de



Information-packed website

All important information about our products can be found on our website. With just a few clicks the "Product finder" function takes you to the right product for your application, and all important documents can be placed in the document basket with just one click for easy downloading. The sophisticated search function quickly shows you the search results, arranged into practical categories.

We have linked catalogue and internet together closely: Simply go to www.theben.de/en/product/ and type in the item number desired and straightaway you will receive the datasheet, operating manual, connection diagram and lots more with just a click.

An example:

www.theben.de/en/product/6100100

gets you all the information about the TR 610 top2.



The mobile website

So that you can learn about our products on your smartphone in the best possible way, we offer you a mobile version of the Theben website: m.theben.de/en

	News	
Time and light control	Digital time switches	18:00
	Analogue time switches	
	Time relays/Hour counters	1234h
	Staircase time switches/Dimmer	
	Twilight switches	
Presence and motion detectors	Presence detectors	
	Motion detectors/Spotlights	
Climate control	Clock thermostats	
	Room thermostats	
	Sensor technology	
Home and Building control	KNX	
	Living comfort control	
	Controller	
Accessories / Appendix	Index/Discontinued models, Agencies	



New sites, new products, new image and a Sales and Marketing Director – it's rare for there to be so many new things at once in a Theben catalogue. The quality you're used to remains the same. As does the spirit of the company.

Dear customers and partners,

A lot has been going on. The Theben corporate group is still going strong as it nears its one hundredth birthday – and we can honestly say: this is only the start. In fact the last ten years have been extremely positive for the group, which, especially considering the extremely challenging market conditions, can be called astonishing and heartening. Our new subsidiaries in Spain, the Netherlands and Singapore are one proof of this.

The success is due first of all, of course, to the products, systems and solutions we develop, produce and sell worldwide. This is possible thanks to the company's innovative power, its conscientious employees and the corporate culture we nurture. It is exactly these values of reliability, durability and openness that we would like to present to you in this catalogue. As well as the one that characterises Theben especially: attentiveness. As this special form of attentiveness is apparent in each one of our solutions, saving energy, offering security and improving comfort.

These are the values that, since the founding of our company, have been decisive in our choice of goals and the way we would achieve them. This is apparent in both the efficiency and sustainability of our actions as well as the sense of responsibility that guides us.

In this catalogue we present our extensive product portfolio to you in somewhat more detail – and the added value from which you benefit. In addition, you will find a multitude of innovative, new products.

But the image itself is also new. The corporate design that underlines the premium character of our products and gives our company a modern image.

As you see: there's lots to discover!

To a continued excellent and cooperative working relationship –
Your Theben team.



Thomas Goes
CEO



Thomas Sell
Chief Sales Officer



More style and passion,
more relevant to you
Theben's new look



Theben – your leading premium supplier of intelligent solutions for energy saving and increased comfort in and around your building. Each of our products and systems actually helps to use natural resources more conscientiously and at the same time increase your quality of life. Theben have been working towards this goal for nearly a hundred years. With numerous long-lasting and reliable innovations. During this time the company's appearance has become brighter and more modern and will continue to do so.

Discover a new side of Theben: In moments where everything is in order, thanks to being in the right place at the right time. Our appearance is new. However, one thing hasn't changed: The promise to deliver top quality. Three words can express this: energy saving comfort.



GOOD DESIGN

PLUS X AWARD[®]
ausgezeichnet für:
Innovation
High Quality
Design
Funktionalität

product design award
2014

⊕ swiss perfection ⊕ swiss perfection ⊕ swiss perfection ⊕ swiss perfection

thePrema
More discreet and stylish,
a clear winner in design
The new presence detector
with the perfectly shaped design



Productinformation on page 100

Its shape resembles a droplet of water: clear, round and perfect. It looks so light and fresh and its slim design means that it is hardly noticeable when fitted to the ceiling. Why install something that is only functional when you can have beauty and style as well.

However it would be hard to find another presence detector that has such a high range of functions and options. Whether it's to be installed in an open plan office, classroom, sports hall, conference room or warehouse everyone benefits from all its features. thePrema can control lighting and HVAC regardless of whether someone is in the room or not. Because of this

everyone feels comfortable and only the energy that is needed is used. thePrema presence detector is available in a Standard and Performance version.

thePrema stands out from the crowd thanks to its performance, quality and good looks. Come what may our reliable presence detectors will always be ready, backed by our 5 year guarantee

5 year guarantee*

*According to guarantee conditions, see www.theben.de/en/guarantee

Simpler to operate and install



Intelligent parallel switching



Comfortable remote control



Individual light scenes



Configurable sensitivity



Automatically button/switch recognition



Reliable teach-in function



Configuration of the energy-saving behaviour

More energy-efficient operation



Innovative light measurement



Permanent light measurement



Self-learning time delay



Sensitive room monitoring



Square detection area



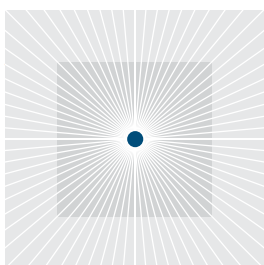
Illuminating short-term



Secure staircase light function



Integratable KNX variants



Squaring the circle: thePrema is based on the proven technology of ThebenHTS, the Swiss inventor of the presence detector. Despite its round shape it still has square detection.

(left) Service remote control theSenda P
(right) User remote control theSenda S



theLuxa
Simpler, sleeker, more elegant
The new motion detector with
the compact design



Productinformation on page 124

With its more elegant design and sleeker looks, theLuxa is a superior motion detector. The improved technology built inside is even better than its predecessor to give enhanced product. This is how the theLuxa, the new motion detector from Theben really shows its credentials. Whatever wall it is fitted to and in the case of some models the ceiling theLuxa will impress with its looks and performance. However we suspect most people will not notice it, until the lights come on and they can see where they are going, safely.

In this respect it has no equal, most other motion detectors are unable to boast all the advantages of theLuxa. This makes it the

ideal motion detector for private home use as well as commercial applications. Applications include entrance ways, driveways, door entrances, carports and car parks.

theLuxa is currently available in the standard models S150/S180 and S360 in either black or white. In spring 2014 additional models will be introduced to theLuxa performance range. Whether Standard or Performance, the whole product range will win you over with its elegant design and functionality.

Simpler to operate and install

	Simple adjustment		Clever teach-in function		Practical test function	Highly visible terminal labelling
	Elegant ceiling installation		Appropriate for flush-mount sockets		Spacious plug base	Secure fastening

Secure and comfortable in operation

	Rotating sensor head		Simply rainproof		Practical pulse function
	Manual switch-on		Convenient undercreeper protection		High switching performance



Stylish in black or white. The theLuxa motion detector looks good and switches on quickly – exactly when needed. The S360 is suitable for ceiling installation. Product information on page 126 installation in the ceiling.

Secure fastening – Thanks to its blind terminal for earth conductors and the bracket for plug-in terminals, installation of theLuxa is quicker and safer. The earth conductor is neatly fixed, as it should be.



One for all DIMAX plus

Productinformation on page 68



Save money and help the environment with pleasant lighting – it's possible. Theben's new universal dimmers have an extremely low consumption on stand-by, look after your lights and help them to last longer. The DIMAX 534 plus device allows the choice of up to three light scenes that are called up via a separate input. The comfort device also has a central ON/OFF function. The dimming speed for lighting scenario changes can be set individually. As energy saving lamps from different

manufacturers have different dimming characteristics, the new universal dimmer has two optimised settings with individually adjustable minimum brightness. The switch-on brightness can also be set as required. Theben's new universal dimmer offers you high investment security, as it is able to dim the light element of the future – LED lights, reliably and steplessly.

More efficient and future-proof. Energy-saving light



Freely
configurable
comfort



Optimised for
energy-saving
lamps



Future-proof
LED dimming



More effective forecasts Meteodata 139 KNX

Productinformation on page 214



Being able to react sensibly to weather forecasts is an art that Meteodata has mastered: for example, heat storage can be loaded predictively, sun protection set more effectively and rainwater used even more efficiently. If sunshine is forecast, only the amount of service water required will be heated up. For the remaining heat needed, the solar energy system will be used later. In summer, awning



systems stop unused areas from being too strongly heated by the sun's rays. In winter on the other hand, shading is minimised in order to achieve the maximum heat gain from solar radiation. Bad weather or storms can be detected early thanks to the Meteodata's weather forecasts. This lets you react to them in time. The weather data received can be shown on a KNX multifunction display such as the VARIA 826 KNX.

More reliable planning. For greater energy-saving



**Minimise
 heating costs**



**Use heat
 radiation more
 effectively**



**Control sun
 protection
 predictively**



**Functions only in
 Germany and some
 surrounding areas**



A rock in the surging seas

There are certain things that follow one another as surely as night follows day. The ebb and flow of the sea is another example. You can simply rely on it happening, this also applies to Theben. One reason for our success is the calmness and prudence with which it has acted in the market. Where other do things for the sake of a quick profit, Theben remains true to itself and its customers. We call it dependability.

	Program	Number of channels	Memory locations	External inputs	PC interface	Memory card supplied	Type of connection	Type	Page
DIN rail, 2 modules									
	Weekly program	1	56	–	✓	–	DuoFix spring terminals	TR 610 top2	16
		2	56	–	✓	–	DuoFix spring terminals	TR 612 top2	16
		1	84	1	✓	✓	DuoFix spring terminals	TR 611 top2	18
								TR 611 top2 RC	18
		2	84	2	✓	✓	DuoFix spring terminals	TR 622 top2	18
	Weekly program, astronomical program	1	56	–	✓	–	DuoFix spring terminals	SELEKTA 170 top2	20
			84	1	✓	–	DuoFix spring terminals	SELEKTA 171 top2 RC	20
		2	84	2	✓	–	DuoFix spring terminals	SELEKTA 172 top2	20
DIN rail, 1 module									
	Weekly program	1	56	–	✓	–	DuoFix spring terminals	TR 608 top2 S	22
			84	1	✓	–	DuoFix spring terminals	TR 609 top2 S	22
DIN rail, 3 modules									
	Yearly program, astronomical program	1	800	1	✓	–	DuoFix spring terminals	TR 641 top2	24
						✓	DuoFix spring terminals	TR 641 top2 RC	24
		2	800	2	✓	–	DuoFix spring terminals	TR 642 top2	24
						✓	DuoFix spring terminals	TR 642 top2 RC	24
	Extension modules	–	–	–	–	–	DuoFix spring terminals	EM LAN top2	26
DIN rail, 4 modules									
	Yearly program, astronomical program	4	800	4	✓	–	DuoFix spring terminals	TR 644 top2	24
						✓	DuoFix spring terminals	TR 644 top2 RC	24
	Extension modules	4	–	4	–	–	DuoFix spring terminals	EM 4 top2	26
Front panel installation/wall installation									
	Weekly program	1	84	–	✓	–	Screw terminals	TR 635 top2	28
		2	84	–	✓	–	Screw terminals	TR 636 top2	28
Flush mounting									
	Weekly program	1	56	–	–	–	tab terminal	TR 684-1 top2	30
		2	56	–	–	–	tab terminal	TR 684-2 top2	30
Plug-in									
	Weekly program	1	36	–	–	–	Plug-in	theben-eltimo 020 S	32
			33	–	–	–	Plug-in	theben-eltimo 020 S DCF	32

Time and light control

Digital time switches with weekly program, DIN rail, 2 modules



TR 610 top2



TR 612 top2

Description

Common functions

- Digital time switch with weekly program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)

- ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Integrated operating hour counter
- Holiday program
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

TR 610 top2

- 1 channel

TR 612 top2

- 2 channels

Product selection

Program	Program functions	Number of channels	Switching load < 1 mA	Operating voltage	Type	Article number
Weekly program	ON-OFF	1	—	230–240 V AC	TR 610 top2	6100103*
			✓	230–240 V AC	TR 610 top2 G	6100110
			—	12–24 V UC	TR 610 top2 24V	6104100
		2	—	230–240 V AC	TR 612 top2	6120103*
				12–24 V UC	TR 612 top2 24V	6124100

* Languages: EN, ES, FR, PT, DE (other article numbers with additional languages on request)

Time and light control

Digital time switches with weekly program, DIN rail, 2 modules

2

Technical data

	TR 610 top2	TR 610 top2 G	TR 610 top2 24V	TR 612 top2	TR 612 top2 24V
Operating voltage	230–240 V AC		12–24 V UC	230–240 V AC	12–24 V UC
Frequency	50–60 Hz				
Width	2 modules				
Installation type	DIN rail				
Power reserve	10 years				
Switching capacity at 250 V AC, cos φ = 1	16 A				
Switching capacity at 250 V AC, cos φ = 0,6	10 A	2 A		10 A	2 A
Incandescent/halogen lamp load	2600 W	1400 W		2600 W	1400 W
Energy saving lamps	22 x 7 W, 18 x 11 W , 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W , 6 x 11 W , 5 x 15 W , 5 x 20 W, 4 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W
LED lamps < 2 W	30 W	–	–	30 W	–
LED lamps 2–8 W	100 W	–	–	100 W	–
Switching capacity min.	ca. 10 mA	<1 mA	ca. 10 mA		
Shortest switching times	1 min				
Time accuracy at 25 °C	≤ ± 0.5 s/day (quartz)				
Stand-by consumption	0,8 W		0,3 W	0,8 W	0,3 W
Test approval		–			–
Type of protection	IP 20				
Protection class	II according to EN 60 730-1				
Ambient temperature	–30 °C ... +55 °C				

Accessories



PC set OBELISK top2

↳ Art.No.: 9070409

Details page 247



Memory card OBELISK top2

↳ Art.No.: 9070404

Details page 247



Wall mounting kit 35 mm

↳ Art.No.: 9070064

Details page 246

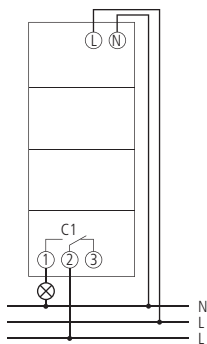


Front panel kit

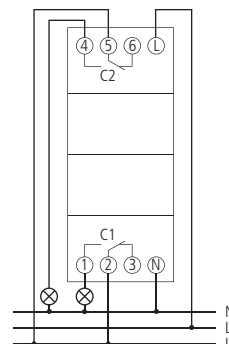
↳ Art.No.: 9070001

Details page 246

Connection diagrams



TR 610 top2



TR 612 top2

Time and light control

Digital time switches with weekly program, DIN rail, 2 modules



Description

Common functions

- Digital time switch with weekly program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- OBELISK memory card included in delivery
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- ON-OFF switching times
- Pulse program

- Cycle program
- Switching preselection
- Permanent switching ON/OFF
- Timer countdown
- Integrated operating hour counter
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding
- Automatic summer / winter time changeover

TR 611 top2

- 1 channel
- External input

TR 611 top2 RC

- Time synchronisation option via connection of an external DCF or GPS antenna (GPS not with 24 V device)
- Additional power unit required (9070892) for GPS if only one device is connected to the antenna
- 1 channel
- External input

TR 622 top2

- 2 channel
- 2 external inputs

Product selection

Program	Program functions	Number of channels	External inputs	Time basis	Operating voltage	Type	Article number
Weekly program	ON-OFF, Pulse, Cycle	1	1	Quartz	230 – 240 V AC	TR 611 top2	6110103*
					12 – 24 V UC	TR 611 top2 24V	6114100
				Quartz / DCF77 / GPS	230 – 240 V AC	TR 611 top2 RC	6110300
					12 – 24 V UC	TR 611 top2 RC 24V	6114300
		2	2	Quartz	230 – 240 V AC	TR 622 top2	6220103*
					12 – 24 V UC	TR 622 top2 24V	6224100

* Languages: EN, ES, FR, PT, DE (other article numbers with additional languages on request)

Time and light control

Digital time switches with weekly program, DIN rail, 2 modules

2

Technical data

	TR 611 top2	TR 611 top2 24V	TR 611 top2 RC	TR 611 top2 RC 24V	TR 622 top2	TR 622 top2 24V
Operating voltage	230–240 V AC	12–24 V UC	230–240 V AC	12–24 V UC	230–240 V AC	12–24 V UC
Frequency	50–60 Hz					
Width	2 modules					
Installation type	DIN rail					
Power reserve	10 years					
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A					
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A	2 A	10 A	2 A	10 A	2 A
Incandescent/halogen lamp load	2600 W	1400 W	2600 W	1400 W	2600 W	1400 W
Energy saving lamps	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W
LED lamps < 2 W	30 W	–	30 W	–	30 W	–
LED lamps 2–8 W	100 W	–	100 W	–	100 W	–
Switching capacity min.	ca. 10 mA					
Shortest switching times	1 s					
Time accuracy at 25 °C	$\leq \pm 0,5$ s/day (quartz)		$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS		$\leq \pm 0,5$ s/day (quartz)	
Stand-by consumption	0,8 W	0,3 W	1,4 W	0,9 W	0,8 W	0,3 W
Test approval		–		–		–
Type of protection	IP 20					
Protection class	II according to EN 60 730-1					
Ambient temperature	–30 °C ... +55 °C					

Accessories



PC set OBELISK top2

↳ Art.No.: 9070409

Details page 247



Memory card OBELISK top2

↳ Art.No.: 9070404

Details page 247



Wall mounting kit 35 mm

↳ Art.No.: 9070064

Details page 246

Antenna top2 RC-DCF

Details page 247

Front panel kit

Details page 246

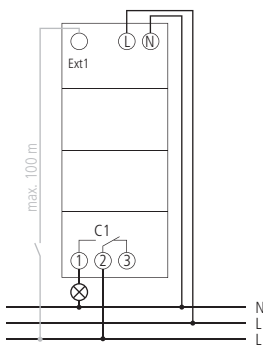
Antenna top2 RC-GPS

Details page 247

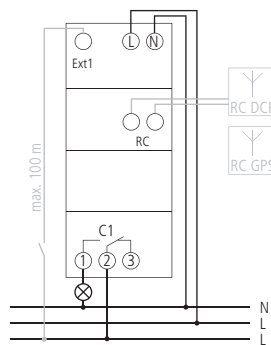
Power unit top2 GPS

Details page 247

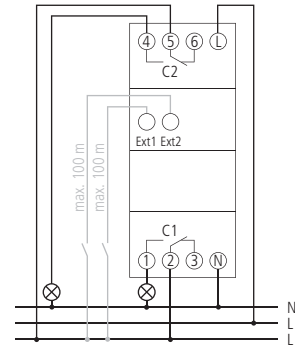
Connection diagrams



TR 611 top2



TR 611 top2 RC



TR 622 top2

Time and light control

Digital time switches with astronomical program, DIN rail, 2 modules

2



SELEKTA 170 top2



SELEKTA 171 top2 RC



SELEKTA 172 top2

Description

Common functions

- Astronomical time switch with weekly program
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
- DuoFix spring terminals
- Text-oriented user guidance in display
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Calculated astronomical switching times
- Programmable ON-OFF switching times
- Switching preselection

- Permanent switching ON/OFF
- Integrated operating hour counter
- Holiday program
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

SELEKTA 170 top2

- 1 channel
- 56 memory locations

SELEKTA 171 top2 RC

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS (GPS not with 24 V device)
- Additional power unit required for GPS if only one device is connected to the antenna

- 1 channel
- External input
- 84 memory locations
- 3 special programs with yearly date function per channel
- Count-down timer

SELEKTA 172 top2

- 2 channels
- 84 memory locations
- Channel 1 or channel 2 can also be used purely as time switch channel
- 2 external inputs
- 3 special programs with yearly date function per channel
- Count-down timer

Product selection

Program	Number of channels	External inputs	Time basis	Operating voltage	Type	Article number
Weekly program, astronomical program	1	–	Quartz	230–240 V AC	SELEKTA 170 top2	1700100
				12–24 V UC	SELEKTA 170 top2 24V	1704100
		1	Quartz/DCF77/GPS	230–240 V AC	SELEKTA 171 top2 RC	1710100
				12–24 V UC	SELEKTA 171 top2 RC 24V	1714100
	2	2	Quartz	230–240 V AC	SELEKTA 172 top2	1720100
				12–24 V UC	SELEKTA 172 top2 24V	1724100

Time and light control

Digital time switches with astronomical program, DIN rail, 2 modules

2

Technical data

	SELEKTA 170 top2	SELEKTA 170 top2 24V	SELEKTA 171 top2 RC	SELEKTA 171 top2 RC 24V	SELEKTA 172 top2	SELEKTA 172 top2 24V
Operating voltage	230–240 V AC	12–24 V UC	230–240 V AC	12–24 V UC	230–240 V AC	12–24 V UC
Frequency	50–60 Hz					
Width	2 modules					
Installation type	DIN rail					
Power reserve	10 years					
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A					
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A	2 A	10 A	2 A	10 A	2 A
Incandescent/halogen lamp load	2600 W	1400 W	2600 W	1400 W	2600 W	1400 W
Energy saving lamps	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W
LED lamps < 2 W	30 W	–	30 W	–	30 W	–
LED lamps 2–8 W	100 W	–	100 W	–	100 W	–
Switching capacity min.	ca. 10 mA					
Shortest switching times	1 min					
Time accuracy at 25 °C	$\leq \pm 0,5$ s/day (quartz)		$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS		$\leq \pm 0,5$ s/day (quartz)	
Stand-by consumption	0,8 W	0,2 W	1,4 W	0,8 W	0,2 W	0,2 W
Test approval		–		–		–
Type of protection	IP 20					
Protection class	II according to EN 60 730-1					
Ambient temperature	–30 °C ... +55 °C					

Accessories



PC set OBELISK top2
↳ Art.No.: 9070409
Details page 247



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 247



Wall mounting kit 35 mm
↳ Art.No.: 9070064
Details page 246

Front panel kit

Details page 246

Antenna top2 RC-DCF

Details page 247

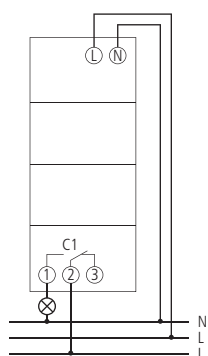
Antenna top2 RC-GPS

Details page 247

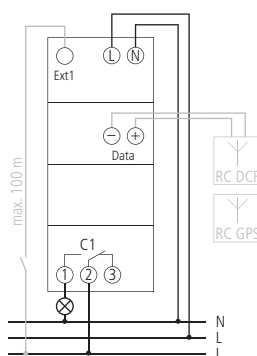
Power unit top2 GPS

Details page 247

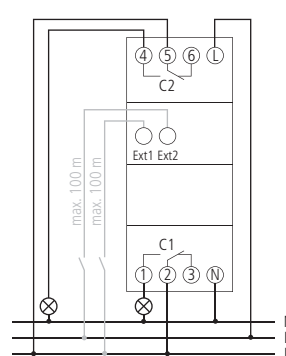
Connection diagrams



SELEKTA 170 top2



SELEKTA 171 top2 RC



SELEKTA 172 top2

Time and light control

Digital time switches with weekly program, DIN rail, 1 module



TR 608 top2 S



TR 609 top2 S

Description

Common functions

- Digital time switch with weekly program
- 1 channel
- DuoFix spring terminals
- Text-oriented user guidance in display
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times

- Switching preselection
- Permanent switching ON/OFF
- Integrated operating hour counter
- Holiday program
- PIN coding
- Automatic summer/winter time changeover

TR 608 top2 S

- 56 memory locations

TR 609 top2 S

- 84 memory locations
- External input
- Pulse program
- Cycle program
- Timer countdown
- 2 random programs

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	56	ON-OFF,	230–240 V AC	TR 608 top2 S	6080101
		84	ON-OFF, Pulse, Cycle	230–240 V AC	TR 609 top2 S	6090101

Time and light control

Digital time switches with weekly program, DIN rail, 1 module

2

Technical data

	TR 608 top2 S	TR 609 top2 S
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Width	1 module	
Installation type	DIN rail	
Power reserve	10 years	
Type of contact	Changeover contact	NO contact
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A	
Incandescent / halogen lamp load	1000 W	2000 W
Energy saving lamps	30 W	300 W
LED lamps < 2 W	6 W	55 W
LED lamps 2–8 W	20 W	180 W
Shortest switching times	1 min	1 s
Time accuracy at 25 °C	$\leq \pm 0,25$ s/day (quartz)	
Stand-by consumption	0,4 W	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–25 °C ... +55 °C	

Accessories



Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

Details page 246



PC set OBELISK top2

↳ Art.No.: 9070409

Details page 247

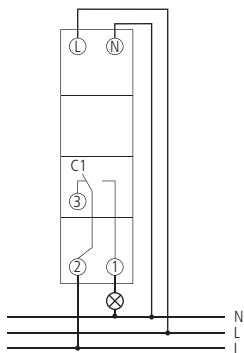


Memory card OBELISK top2

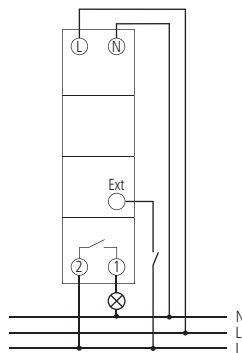
↳ Art.No.: 9070404

Details page 247

Connection diagrams



TR 608 top2 S



TR 609 top2 S

Time and light control

Digital time switches with yearly and astronomical program, DIN rail, 3 modules, 4 modules



TR 641 top2

TR 642 top2 RC

TR 644 top2

Description

Common functions

- Digital time switch with yearly and astronomical time program
- DuoFix spring terminals
- Text-oriented user guidance in display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- Zero-cross switching for leay-saving switching and high lamp loads (not with 24 V devices)
- Automatic summer/winter time changeover
- ON-OFF switching times
- Pulse program
- Cycle program
- Extensive yearly clock functions
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
- Switching preselection
- Permanent switching ON/OFF
- Count-down timer
- Integrated operating hour counter
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding

TR 641 top2

- 1 channel
- External input

TR 641 top2 RC

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS
- 1 channel
- External input
- Extension module can be connected
- Memory card OBELISK top2 included in delivery

TR 642 top2

- 2 channels
- 2 external inputs

TR 642 top2 RC

As TR 641 top2 RC, but:

- 2 channels
- 2 external inputs

TR 644 top2

- 4 channels
- 4 external inputs

TR 644 top2 RC

As TR 641 top2 RC, but:

- 4 channels
- 4 external inputs

Product selection

Program	Program functions	Number of channels	External inputs	Time basis	Memory card supplied	Operating voltage	Type	Article number
Yearly program, astronomical program	ON-OFF, Pulse, Cycle	1	1	Quartz	–	110–240 V AC	TR 641 top2	6410100
				Quartz/DCF77/GPS	✓	110–240 V AC	TR 641 top2 RC	6410300
						12–24 V UC	TR 641 top2 RC 24V	6414300
		2	2	Quartz	–	110–240 V AC	TR 642 top2	6420100
				Quartz/DCF77/GPS	✓	110–240 V AC	TR 642 top2 RC	6420300
						12–24 V UC	TR 642 top2 RC 24V	6424300
		4	4	Quartz	–	110–240 V AC	TR 644 top2	6440100
				Quartz/DCF77/GPS	✓	110–240 V AC	TR 644 top2 RC	6440300

Time and light control

Digital time switches with yearly and astronomical program, DIN rail, 3 modules, 4 modules

Technical data

	TR 641 top2	TR 641 top2 RC	TR 641 top2 RC 24V	TR 642 top2	TR 642 top2 RC	TR 642 top2 RC 24V	TR 644 top2	TR 644 top2 RC
Operating voltage	110–240 V AC		12–24 V UC	110–240 V AC		12–24 V UC	110–240 V AC	
Frequency	50–60 Hz							
Width	3 modules						4 modules	
Installation type	DIN rail							
Power reserve	8 years							
Switching capacity at 250 V AC, cos φ = 1	16 A							
Switching capacity channels 1+3	–						10 A	
Switching capacity at 250 V AC, cos φ = 0,6	10 A		2 A	10 A		2 A	10 A	
Incandescent/halogen lamp load 230 V	2600 W		1400 W	2600 W		1400 W	2300 W	
Incandescent/halogen lamp load 120 V	1300 W		–	1300 W	700 W	–	1150 W	
Energy saving lamps 230 V	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W		7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W		7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W	
Energy saving lamps 120 V	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W		–	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W		–	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W	
Switching capacity min.	ca. 10 mA							
Shortest switching times	1 s							
Time accuracy at 25 °C	≤ ± 0.5 s/day (quartz)	≤ ± 0.5 s/day (quartz) or DCF77/GPS		≤ ± 0.5 s/day (quartz)	≤ ± 0.5 s/day (quartz) or DCF77/GPS		≤ ± 0.5 s/day (quartz)	≤ ± 0.5 s/day (quartz) or DCF77/GPS
Stand-by consumption	0,6 W	1,2 W	1,5 W	0,6 W	1,2 W	1,5 W	0,5 W	1,3 W
Type of protection	IP 20							
Protection class	II according to EN 60 730-1							
Ambient temperature	–30 °C ... +50 °C						–30 °C ... +45 °C	

Accessories



EM 4 top2
for RC versions
↳ Art.No.: 6490104
Details page 26



EM LAN top2
for RC versions
↳ Art.No.: 6490900
Details page 26



Antenna top2 RC-DCF
for RC versions
↳ Art.No.: 9070410
Details page 247

Wall mounting kits
Details page 246

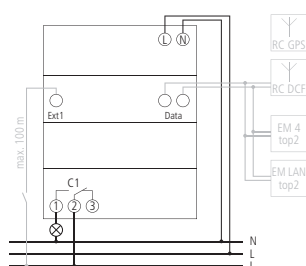
Front panel kit
Details page 246

Antenna top2 RC-GPS
Details page 247

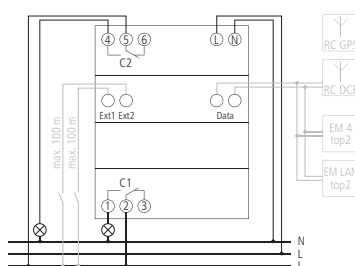
Memory card OBELISK top2
Details page 247

PC set OBELISK top2
Details page 247

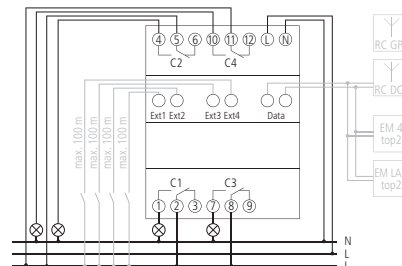
Connection diagrams



TR 641 top2 RC



TR 642 top2 RC



TR 644 top2 RC

Time and light control

Digital time switches, extension modules, DIN rail, 3 modules, 4 modules



EM LAN top2



EM 4 top2

Description

EM LAN top2

- Ethernet communication module for remote access via LAN-DSL network to time switches TR 641 top2 RC, TR 642 top2 RC and TR 644 top2 RC
- Remote programming using OBELISK top2 PC software
- Direct remote access to time switch (e.g. reading out switching status, performing manual switching, checking time)
- Width: 3 modules

EM 4 top2

- Extension module for TR 641 top2 RC, TR 642 top2 RC and TR 644 top2 RC
- 4 channels
- Width: 4 modules
- DuoFix spring terminals
- 4 external inputs
- Switching preselection
- Permanent ON/OFF switching
- 4 LEDs for displaying switching status
- Zero-cross switching for relay-saving switching and high lamp loads

Product selection

Type	Article number
EM LAN top2	6490900
EM 4 top2	6490104

Time and light control

Digital time switches, extension modules, DIN rail, 3 modules, 4 modules

2

Technical data

	EM LAN top2	EM 4 top2
Operating voltage	230 V AC	110–240 V AC
Frequency	50–60 Hz	
Width	3 modules	4 modules
Installation type	DIN rail	
Switching capacity at 250 V AC, $\cos \varphi = 1$	–	2 x 16 A 2 X 10 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	–	10 A
Switching capacity min.	–	ca. 10 mA
Stand-by consumption	2,8 W	1,5 W
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–30 °C ... +50 °C	–30 °C ... +55 °C

Accessories



Wall mounting kit 52,5 mm

Details page 246

Wall mounting kit 70 mm

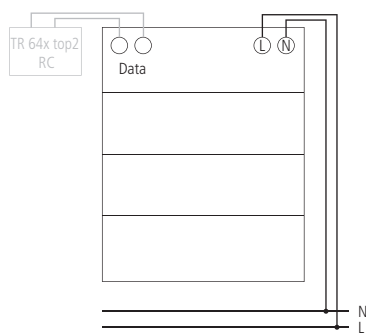
Details page 246

Front panel kit

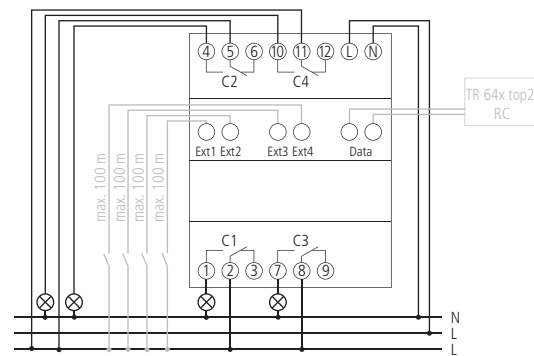
↳ Art.No.: 9070001

Details page 246

Connection diagrams



EM LAN top2



EM 4 top2

Time and light control

Digital time switches, Front panel installation/wall installation



Description

Common functions

- Digital time switch with weekly program
- Text-based operator guidance in the display
- 84 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times
- Pulse program
- Cycle program

- Switching preselection
- Permanent ON/OFF switching
- Count-down timer
- Integrated hour counter
- Holiday program
- 2 random programs
- Back lighting (can be turned off)
- PIN coding
- Automatic summer / winter time changeover

TR 635 top2

- 1 channel

TR 636 top2

- 2 channels

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	84	ON-OFF, Pulse, Cycle	230 – 240 V AC	TR 635 top2	6350100
	2	84	ON-OFF, Pulse, Cycle	230 – 240 V AC	TR 636 top2	6360100

Time and light control

Digital time switches, Front panel installation/wall installation

2

Technical data

	TR 635 top2	TR 636 top2
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Installation type	Front panel installation/wall installation	
Power reserve	10 years	
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A	6 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A	6 A
Incandescent/halogen lamp load	2300 W	1200 W
Energy saving lamps	90 W	
Fluorescent lamp load (conventional) not corrected	1000 VA	
Fluorescent lamp load (conventional) series-corrected	1000 VA	
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μF	
Shortest switching times	1 s	
Time accuracy at 25 °C	$\leq \pm 0,5 \text{ s/day (quartz) at } 25 \text{ °C}$	
Stand-by consumption	0,9 W	1,1 W
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–30 °C ... +55 °C	

Accessories



PC set OBELISK top2

↳ Art.No.: 9070409
Details page 247



Memory card OBELISK top2

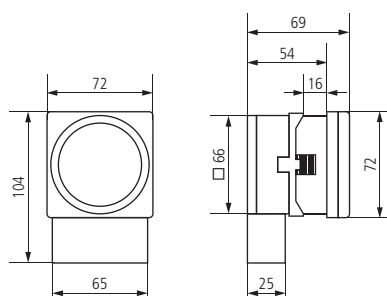
↳ Art.No.: 9070404
Details page 247



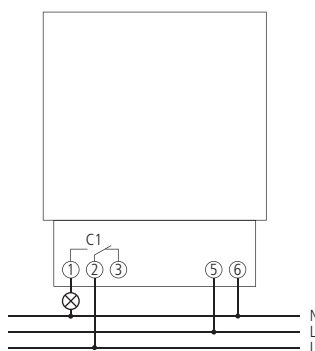
Snap-on mounting 72 x 72

↳ Art.No.: 9070071
Details page 246

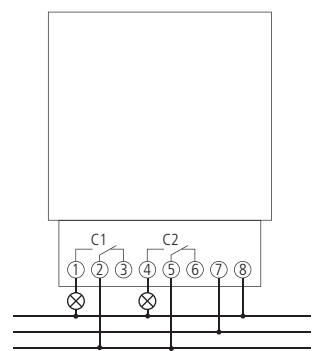
Scale drawings



Connection diagrams



TR 635 top2



TR 636 top2

Time and light control

Digital time switches, timer module without plug-in base



TR 684-1 top2



TR 684-2 top2

Description

Common functions

- Digital time switch with weekly program
- Timer module without plug-in base
- Connection by 4.8 mm AMP flat plug for original installation standard devices
- For installation in regulation and control
- Text-based operator guidance in the display
- 56 memory locations

- Interface for OBELISK top2 memory card (PC programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times
- Switching preselection
- Permanent ON/OFF switching
- Integrated hour counter
- Holiday program

- Back lighting (can be turned off)
- PIN coding
- Automatic summer/winter time changeover

TR 684-1 top2

- 1 channel

TR 684-2 top2

- 2 channels

Product selection

Program	Number of channels	Memory locations	Program functions	Operating voltage	Type	Article number
Weekly program	1	56	ON-OFF	230–240 V AC	TR 684-1 top2	6840100
	2	56	ON-OFF	230–240 V AC	TR 684-2 top2	6840101

Technical data

	TR 684-1 top2	TR 684-2 top2
Operating voltage	230–240 V AC	
Frequency	50–60 Hz	
Installation type	Front panel installation/wall installation	
Power reserve	10 years	
Switching capacity at 250 V AC, $\cos \varphi = 1$	6 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	1 A	
Shortest switching times	1 min	
Time accuracy at 25 °C	$\leq \pm 0.5$ s/day (quartz)	
Stand-by consumption	1 W	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–10 °C ... +55 °C	

Accessories



Multiple contact strip

↳ Art.No.: 9075141

Details page 246



PC set OBELISK top2

↳ Art.No.: 9070409

Details page 247

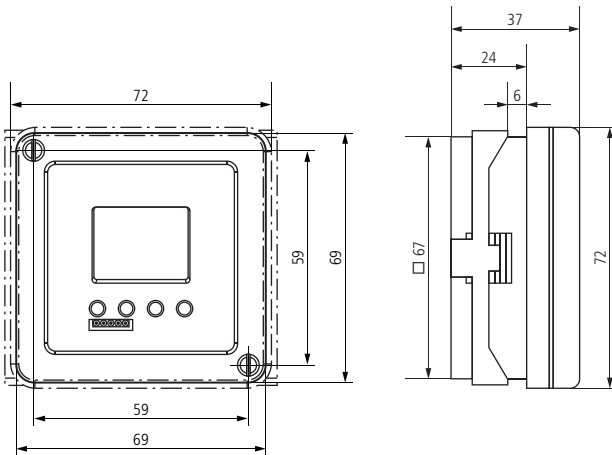


Memory card OBELISK top2

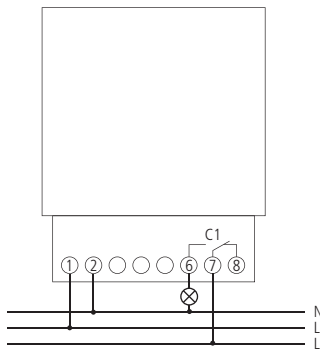
↳ Art.No.: 9070404

Details page 247

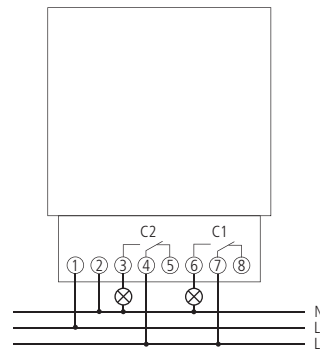
Scale drawings



Connection diagrams



TR 684-1 top2



TR 684-2 top2

Time and light control
Digital time switches, Plug-in



Description

Common functions

- Digital plug-in timer with weekly program
- Use with earthed sockets
- 1 channel
- Easy operation via keys for program function and day of the week, hours, minutes
- ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Random program
- Automatic summer/winter time changeover

theben-eltimo 020 S

- 36 memory locations

theben-eltimo 020 S DCF

- DCF radio control
- 33 memory locations

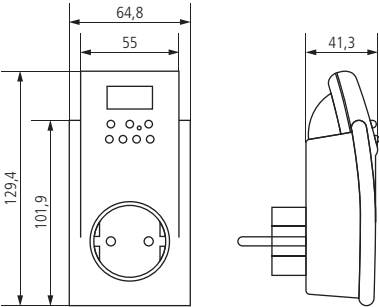
Product selection

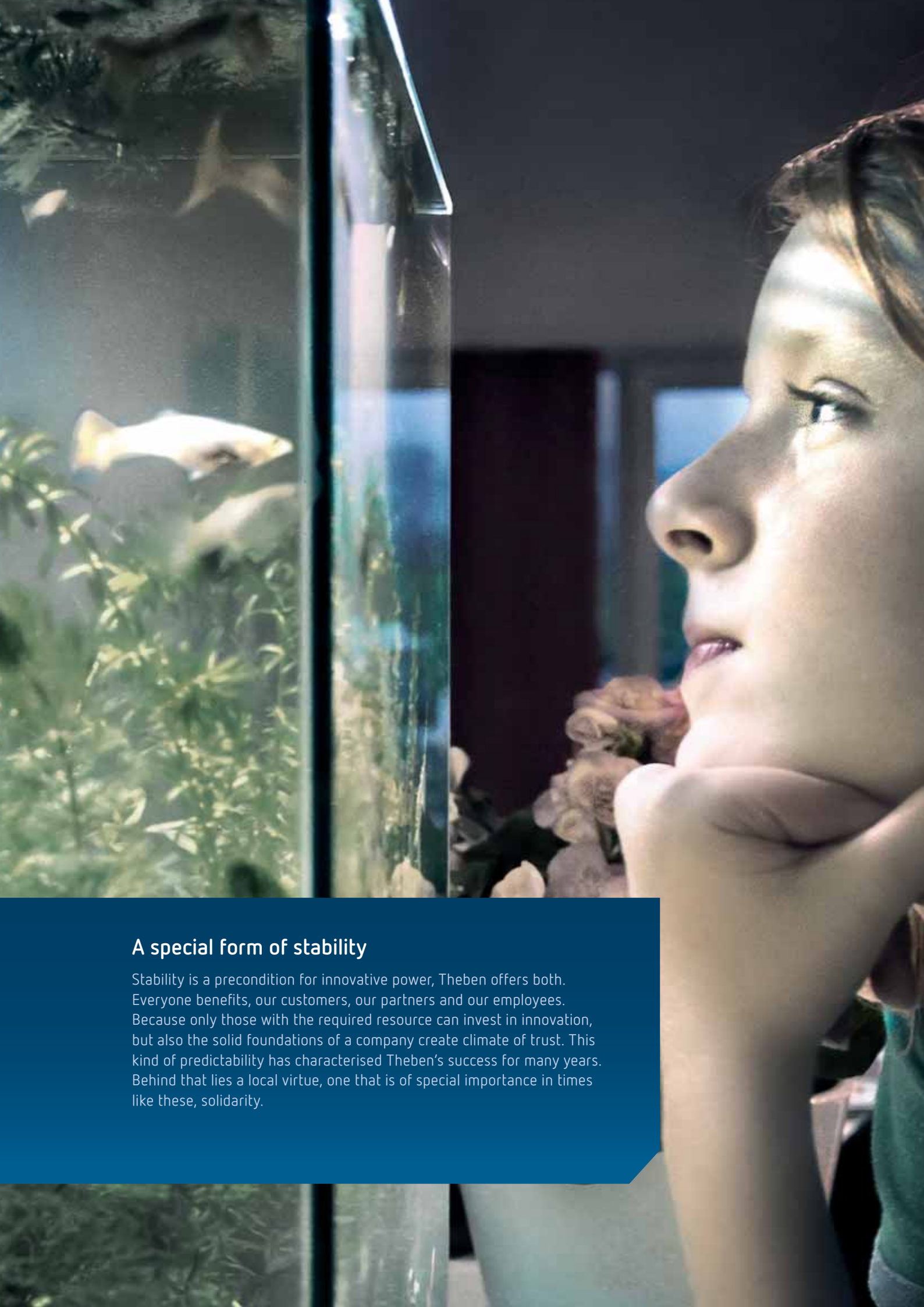
Program	Number of channels	Memory locations	Time basis	Operating voltage	Type	Article number
Weekly program	1	36	Quartz	230 V AC	theben-eltimo 020 S	0200000
		33	Quartz/DCF77	230 V AC	theben-eltimo 020 S DCF	0200300

Technical data

	theben-eltimo 020 S	theben-eltimo 020 S DCF
Operating voltage	230 V AC	
Frequency	50 Hz	
Installation type	Plug-in	
Power reserve	20 days	
Switching capacity at 250 V AC, cos φ = 1	16 A	
Switching capacity at 250 V AC, cos φ = 0,6	2 A	
Incandescent/halogen lamp load	3500 W	
Shortest switching times	1 min	
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)	DCF77 synchronous or ≤ ± 1 s/day (quartz)
Stand-by consumption	0,8 W	
Type of protection	IP 20	
Protection class	II for housing, I for plug system as per EN 62 730-1	
Ambient temperature	- 10 °C ... +40 °C	

Scale drawings





A special form of stability

Stability is a precondition for innovative power, Theben offers both. Everyone benefits, our customers, our partners and our employees. Because only those with the required resource can invest in innovation, but also the solid foundations of a company create climate of trust. This kind of predictability has characterised Theben's success for many years. Behind that lies a local virtue, one that is of special importance in times like these, solidarity.

Program	Number of channels	Type of contact	Power reserve	Shortest switching times	Programmable every	Type of connection	Type	Page
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DIN rail, 1 module

	Daily program	1	NO contact	–	15 min	15 min	Screw terminals	SYN 160 a	36
				3 days	15 min	15 min	Screw terminals	SUL 180 a	36
	Weekly program	1	NO contact	3 days	2 h	2 h	Screw terminals	MEM 190 a	36

DIN rail, 3 modules

	60 minutes program	1	Changeover contact	–	37,5 s	37,5 s	DuoFix spring terminals	SYN 151 h	38
	Daily program	1	Changeover contact	–	15 min	15 min	DuoFix spring terminals	SYN 161 d	38
				200 hours	15 min	15 min	DuoFix spring terminals	SUL 181 d	38
	Weekly program	1	Changeover contact	200 hours	2 h	2 h	DuoFix spring terminals	SUL 191w	38
	Daily program	2	Changeover contact	3 days	30 min	15 min	Screw terminals	SUL 188 g	40
	Daily/weekly program with 1/2 day OFF function	1	Changeover contact	3 days	45 min, 12 h	15 min, 12 h	Screw terminals	SUL 188 hw	40

Front panel installation/wall installation

	Daily program	1	Changeover contact	–	15 min	15 min	Screw terminals	SYN 169 s	42
				3 days	15 min	15 min	Screw terminals	SUL 189 s	42
	Daily program	1	Changeover contact	–	20 min, 2 h	5 min, 30 min	Screw terminals	SYN 269 h	44
				3 days	20 min, 2 h	5 min, 30 min	Screw terminals	SUL 289 h	44
		2	Changeover contact	3 days	20 min, 2 h	5 min, 30 min	Screw terminals	SUL 289 g	44
	60 minutes program	1	Changeover contact	–	1,25 min	18,5 s	Screw terminals	TM 179 h	46
	Daily/weekly program with 1/2 day OFF function	1	Changeover contact	3 days	30 min, 12 h	15 min, 12 h	Screw terminals	SUL 189 hw	46

Wall installation/3-point mounting

	Daily program	2	Changeover contact	6 days	20 min	5 min	Screw terminals	SUL 285/2 T	48
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Plug-in

	Daily program	1	NO contact	–	15 min	15 min	Plug-in	theben-timer 26	49
								theben-timer 26 IP44	49
	Weekly program	1	NO contact	–	2 h	2 h	Plug-in	theben-timer 27	49

Surface-mounted

	Daily and defrost program	2	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 g	50
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Drive with quick fastening for DIN rail

	Daily and defrost program	1	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 h-2	50
		2	Changeover contact	–	2 min, 1 h	1 min, 1 h	Screw terminals	FRI 77 g-2	50

Time and light control

Analogue time switches, DIN rail, 1 module, switching segments



Description

Common functions

- Analogue time switch
- 1 channel
- Screw terminals
- Manual switch with 3 positions: Permanent ON/AUTO/continuous OFF

SYN 160 a

- Daily program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 15 minutes

SUL 180 a

- Daily program
- With power reserve (exchangeable NiMH rechargeable battery)
- 96 switching segments
- Quartz controlled
- Shortest switching time: 15 minutes

MEM 190 a

- Weekly program
- With power reserve (exchangeable NiMH rechargeable battery)
- 84 switching segments
- Quartz controlled
- Shortest switching time: 2 hours

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	—	15 min	15 min	NO contact	230 V AC	SYN 160 a	1600001
		3 days	15 min	15 min	NO contact	230–240 V AC	SUL 180 a	1800001
Weekly program	1	3 days	2 h	2 h	NO contact	230–240 V AC	MEM 190 a	1900001

Time and light control

Analogue time switches, DIN rail, 1 module, switching segments

3

Technical data

	SYN 160 a	SUL 180 a	MEM 190 a
Operating voltage	230 V AC	230 – 240 V AC	
Frequency	50 Hz	50 – 60 Hz	
Width	1 module		
Installation type	DIN rail		
Program	Daily program		Weekly program
Power reserve	–	3 days	
Switching capacity at 250 V AC, cos φ = 1	16 A		
Switching capacity at 250 V AC, cos φ = 0,6	4 A		
Incandescent/halogen lamp load	1000 W		
Shortest switching times	15 min		2 h
Programmable every	15 min		2 h
Time accuracy at 25 °C	Synchronised with mains	≤ ± 1 s/day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Test approval			
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	– 25 °C ... +50 °C	– 10 °C ... +50 °C	

Accessories



Front panel kit

↳ Art.No.: 9070001

Details page 246

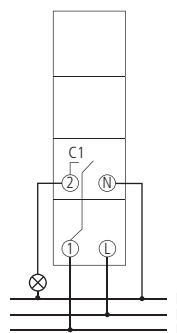


Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

Details page 246

Connection diagrams



Time and light control

Analogue time switches, DIN rail, 3 modules, switching segments



Description

Common functions

- Analogue time switch
- 1 channel
- DuoFix spring terminals
- Switching preselection
- Manual switch with 3 positions: Continuous ON/AUTO/continuous OFF
- Switching status display

SYN 151 h

- 60 minute program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 37.5 seconds

SYN 161 d

- Daily program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 15 minutes
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

SUL 181 d

- Daily program
- With power reserve (NiMH rechargeable battery)
- 96 switching segments
- Quartz controlled
- Shortest switching time: 15 minutes
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

SUL 191 w

- Weekly program
- With power reserve (NiMH rechargeable battery)
- 84 switching segments
- Quartz controlled
- Shortest switching time: 2 hours
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction

SUL 181 h 12/24 V UC

- Without picture
- Daily program
 - 48 switching segments
 - Screw terminals

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
60 minutes program	1	–	37,5 s	37,5 s	Changeover contact	230 V AC	SYN 151 h	1510011
Daily program	1	–	15 min	15 min	Changeover contact	230 V AC	SYN 161 d	1610011
			200 hours	15 min	Changeover contact	110–230 V AC	SUL 181 d	1810011
			3 days	30 min	Changeover contact	24 V UC	SUL 181 h 24 V	1814008
Weekly program	1	200 hours	2 h	2 h	Changeover contact	12 V UC	SUL 181 h 12 V	1817008
						110–230 V AC	SUL 191 w	1910011

Time and light control

Analogue time switches, DIN rail, 3 modules, switching segments

3

Technical data

	SYN 151 h	SYN 161 d	SUL 181 d	SUL 191 w	SUL 181 h 12 V	SUL 181 h 24 V
Operating voltage	230 V AC		110–230 V AC		12 V UC	24 V UC
Frequency	50 Hz		50–60 Hz			
Width	3 modules					
Installation type	DIN rail					
Program	60 minutes program	Daily program		Weekly program	Daily program	
Power reserve	–		200 hours, approx. 100 hours at 110 V		3 days	
Switching capacity at 250 V AC, cos φ = 1	10 A	16 A				
Switching capacity at 250 V AC, cos φ = 0,6	4 A					
Shortest switching times	37,5 s	15 min		2 h	30 min	
Programmable every	37,5 s	15 min		2 h	30 min	
Time accuracy at 25 °C	Synchronised with mains		≤ ± 1 s/day (quartz)			
Stand-by consumption	0,9 W	0,5 W			0,05 W	0,1 W
Test approval						
Type of protection	IP 20					
Protection class	II according to EN 60 730-1					
Ambient temperature	–20 °C ... +55 °C				–20 °C ... +50 °C	

Accessories



Wall mounting kit 52,5 mm

↳ Art.No.: 9070050

Details page 246

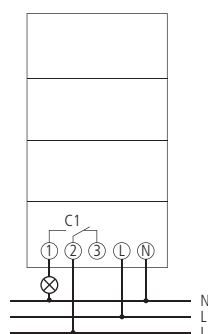


Front panel kit

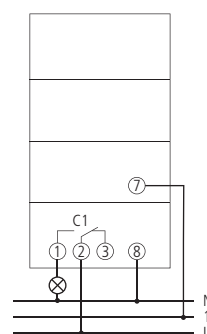
↳ Art.No.: 9070001

Details page 246

Connection diagrams



SYN 151 h, SYN 161 d, SUL 181 d, SUL 191 w



SUL 181 h 12/24 V UC

Time and light control

Analogue time switches, DIN rail, 3 modules, tappets



Description

Common functions

- Analogue time switch
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Tappets
- Screw terminals
- Switching status display
- Operating indication

SUL 188 g

- Daily program
- 2 channels
- Fine adjustment to set the time to the minute
- Shortest switching time: 30 minutes
- 10 tappets included in delivery

SUL 188 hw

- Daily/weekly program and 1/2 day OFF function for the weekdays
- 1 channel (with series connection of the 2 contacts)
- Tappets and turning segments
- Shortest switching time: 45 minutes (12 hours for the 1/2 day OFF function)
- 6 tappets included in delivery

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	2	3 days	30 min	15 min	Changeover contact	230 V AC	SUL 188 g	1880033
Daily/weekly program with 1/2 day OFF function	1	3 days	45 min, 12 h	15 min, 12 h	Changeover contact	230 V AC	SUL 188 hw	1880108

Time and light control

Analogue time switches, DIN rail, 3 modules, tappets

3

Technical data

	SUL 188 g	SUL 188 hw
Operating voltage	230 V AC	
Frequency	45–60 Hz	
Width	3 modules	
Installation type	DIN rail	
Program	Daily program	Daily/weekly program with 1/2 day OFF function
Power reserve	3 days	
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A	
Shortest switching times	30 min	45 min, 12 h
Programmable every	15 min	15 min, 12 h
Time accuracy at 25 °C	$\leq \pm 1 \text{ s/day (quartz)}$	
Stand-by consumption	0,5 W	
Test approval		
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–20 °C ... +55 °C	

Accessories



Front panel kit

↳ Art.No.: 9070001

Details page 246

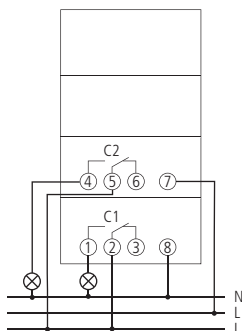


Terminal cover 52,5 mm

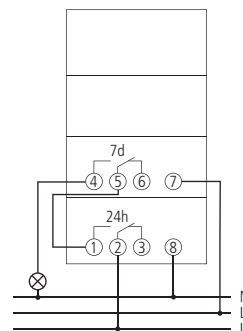
↳ Art.No.: 9070061

Details page 246

Connection diagrams



SUL 188 g



SUL 188 hw

Time and light control
Analogue time switches, Front panel installation/wall installation, switching segments



SYN 169 s



SUL 189 s

Description

Common functions

- Analogue time switch
- 1 channel
- Daily program
- 96 switching segments
- Shortest switching time: 15 minutes
- Clock hands for time display

- Switching preselection
- Permanent ON/OFF switch
- Switching status display
- Simple summer/winter time correction

SYN 169 s

- Without power reserve
- Synchronised with mains

SUL 189 s

- With power reserve (NiMH rechargeable battery)
- Quartz controlled

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	—	15 min	15 min	Changeover contact	230 V AC	SYN 169 s	1690801
		3 days	15 min	15 min	Changeover contact	230 V AC	SUL 189 s	1890801
						110 V AC	SUL 189 s 110V	1891801

Time and light control

Analogue time switches, Front panel installation/wall installation, switching segments

Technical data

	SYN 169 s	SUL 189 s	SUL 189 s 110V
Operating voltage	230 V AC		110 V AC
Frequency	50 Hz	50–60 Hz	
Installation type	Front panel installation/wall installation		
Program	Daily program		
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage	
Switching capacity at 250 V AC, cos φ = 1	10 A		
Switching capacity at 250 V AC, cos φ = 0,6	2 A		
Shortest switching times	15 min		
Programmable every	15 min		
Time accuracy at 25 °C	Synchronised with mains	≤ ± 1 s/day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Test approval			–
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	–10 °C ... +55 °C		

Accessories

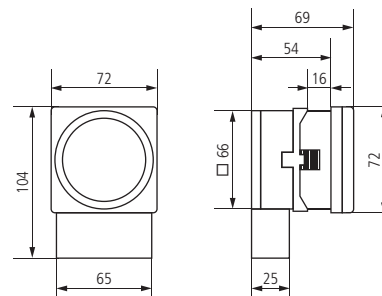


Snap-on mounting 72 x 72

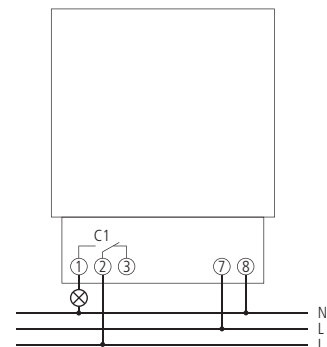
↳ Art.No.: 9070071

Details page 246

Scale drawings



Connection diagrams



Time and light control

Analogue time switches, Front panel installation/wall installation, tappets



SYN 269 h



SUL 289 g

Description

Common functions

- Analogue time switch with daily or weekly program (switching disc can be turned)
- Tappets
- Shortest switching time: 20 minutes or 2 hours
- Clock hands for time display
- Switching status display

SYN 269 h

- 1 channel
- Without power reserve
- Synchronised with mains
- Switching preselection
- Permanent ON/OFF switch
- Simple summer/winter time correction
- 32 tappets included in delivery

SUL 289 h

- 1 channel
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Switching preselection
- Permanent ON/OFF switch
- Simple summer/winter time correction
- 32 tappets included in delivery

SUL 289 g

- 2 channels
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- 49 tappets included in delivery

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	1	–	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SYN 269 h	2690008
		3 days	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SUL 289 h	2890008
	2	3 days	20 min, 2 h	5 min, 30 min	Changeover contact	230 V AC	SUL 289 g	2890033

Time and light control

Analogue time switches, Front panel installation/wall installation, tappets

3

Technical data

	SYN 269 h	SUL 289 h	SUL 289 g
Operating voltage	230 V AC		
Frequency	50 Hz	50–60 Hz	
Installation type	Front panel installation/wall installation		
Program	Daily program, Weekly program		
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage	
Switching capacity at 250 V AC, cos φ = 1	10 A		
Switching capacity at 250 V AC, cos φ = 0,6	2 A		
Shortest switching times	20 min, 2 h		
Programmable every	5 min, 30 min		
Time accuracy at 25 °C	Synchronised with mains	± 1 s/day (quartz)	
Stand-by consumption	0,9 W	0,5 W	
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		
Ambient temperature	–10 °C ... +55 °C		

Accessories

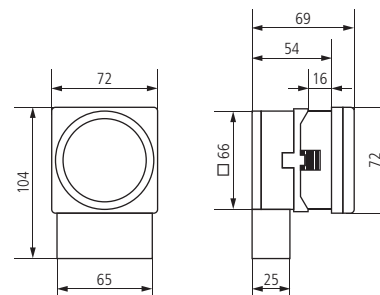


Snap-on mounting 72 x 72

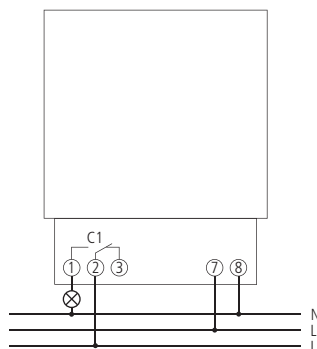
↳ Art.No.: 9070071

Details page 246

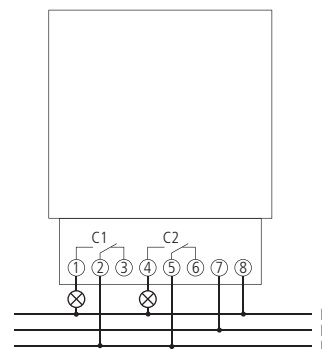
Scale drawings



Connection diagrams



SYN 269 h, SUL 289 h



SUL 289 g

Time and light control

Analogue time switches, Front panel installation/wall installation, tappets



Description

Common functions

- Analogue time switch
- Switching status display
- 6 tappets included in delivery

TM 179 h

- 60 minute program
- 1 channel
- Without power reserve
- Synchronised with mains
- Tappets
- Shortest switching time: 75 seconds
- Switching preselection

SUL 189 hw

- Daily/weekly program and 1/2 day OFF function for the weekdays
- 1 channel (with series connection of 2 the contacts)
- With power reserve (NiMH rechargeable battery)
- Quartz controlled
- Tappets and turning segments
- Shortest switching time: 30 minutes (12 hours for the 1/2 day OFF function)

Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
60 minutes program	1	–	1,25 min	18,5 s	Changeover contact	230 V AC	TM 179 h	1790008
Daily/weekly program with 1/2 day OFF function	1	3 days	30 min, 12 h	15 min, 12 h	Changeover contact	230 V AC	SUL 189 hw	1890108

Time and light control

Analogue time switches, Front panel installation/wall installation, tappets

3

Technical data

	TM 179 h	SUL 189 hw
Operating voltage	230 V AC	
Frequency	50 Hz	50–60 Hz
Installation type	Front panel installation/wall installation	
Program	60 minutes program	Daily/weekly program with 1/2 day OFF function
Power reserve	–	3 days, full power reserve approx. 3 days after connection to operating voltage
Switching capacity at 250 V AC, $\cos \varphi = 1$	10 A	
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	2 A	
Shortest switching times	1,25 min	30 min, 12 h
Programmable every	18,5 s	15 min, 12 h
Time accuracy at 25 °C	Synchronised with mains	$\leq \pm 1$ s/day (quartz)
Stand-by consumption	0,9 W	0,5 W
Test approval		
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	
Ambient temperature	–10 °C ... +55 °C	

Accessories

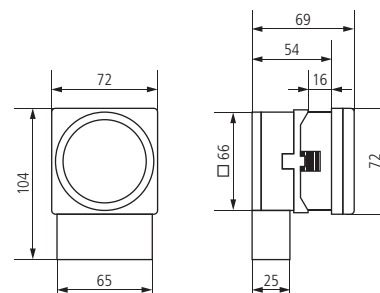


Snap-on mounting 72 x 72

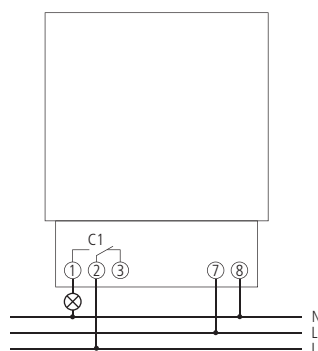
↳ Art.No.: 9070071

Details page 246

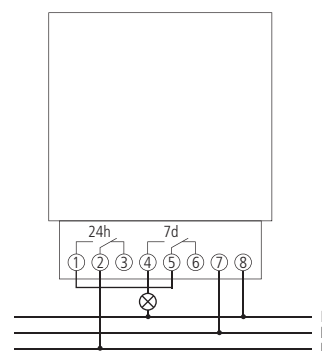
Scale drawings



Connection diagrams



TM 179 h



SUL 189 hw

Time and light control

Analogue time switches, Wall installation/3-point mounting



Description

- Analogue tariff time switch with daily program
- 2 channels
- With power reserve (exchangeable NiMH rechargeable battery)
- Quartz controlled
- Tappets
- Shortest switching time: 20 minutes
- Clock hands for time display
- Switching status display
- Simple summer/winter time correction
- Control LED for battery change
- 32 tappets included in delivery

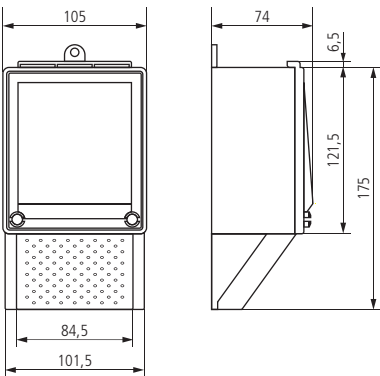
Product selection

Program	Number of channels	Power reserve	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	2	6 days	20 min	5 min	Changeover contact	110–230 V AC	SUL 285/2 T	2850033

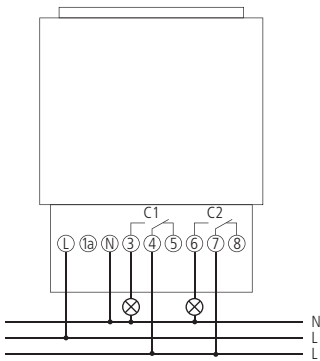
Technical data

SUL 285/2 T			
Operating voltage	110–230 V AC	Shortest switching times	20 min
Frequency	50–60 Hz	Programmable every	5 min
Installation type	Wall installation/3-point mounting	Time accuracy at 25 °C	≤ ± 1 s/day (quartz)
Program	Daily program	Stand-by consumption	0,6 W
Power reserve	6 days, full power reserve approx. 3 days after connection to operating voltage	Type of protection	IP 54
Switching capacity at 250 V AC, cos φ = 1	6 A	Protection class	II according to EN 62 054-21
Switching capacity at 250 V AC, cos φ = 0,6	2 A	Ambient temperature	– 10 °C ... +55 °C

Scale drawings



Connection diagrams





Description

Common functions

- Analogue plug-in timer
- 1 channel
- Without power reserve
- Synchronised with mains
- Use with earthed sockets
- Switching preselection
- Switching status display

theben-timer 26

- Daily program
- 96 switching segments
- Shortest switching time: 15 minutes

theben-timer 26 IP 44

As theben-timer 26, but:

- Waterproof protection for damp locations and outdoor areas
- Transparent cover

theben-timer 27

- Weekly program
- 84 switching segments
- Shortest switching time: 2 hours

Product selection

Program	Shortest switching times	Programmable every	Type of contact	Operating voltage	Type	Article number
Daily program	15 min	15 min	NO contact	230 V AC	theben-timer 26	0260030
				230 V AC	theben-timer 26 IP 44	0260855
Weekly program	2 h	2 h	NO contact	230 V AC	theben-timer 27	0270930

Technical data

	theben-timer 26	theben-timer 26 IP 44	theben-timer 27
Operating voltage	230 V AC		
Frequency	50 Hz		
Installation type	Plug-in		
Program	Daily program		Weekly program
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A		
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A		
Shortest switching times	15 min		2 h
Programmable every	15 min		2 h
Time accuracy at 25 °C	Synchronised with mains		
Stand-by consumption	0,9 W		
Test approval		—	
Type of protection	IP 20	IP 44	IP 20
Protection class	II according to EN 60 730-1		
Ambient temperature	-10 °C ... +55 °C	-40 °C ... +55 °C	-10 °C ... +55 °C

*According to guarantee conditions, see www.theben.de/en/guarantee

Time and light control
Analogue time switches, Surface-mounted/DIN rail



FRI 77 g



FRI 77 g-2

Description

Common functions

- Analogue cooling time switch with daily and short time program
- Tappet
- 2 separate switching discs

FRI 77 g

- 2 channels
- Wall-mounted
- 8 tappets included in delivery
- Optional delayed switching on of fan

FRI 77 h-2

- 1 channel
- Drive with quick fastening for DIN rail
- 6 tappets included in delivery

FRI 77 g-2

- 2 channels
- Drive with quick fastening for DIN rail
- 8 tappets included in delivery
- Optional delayed switching on of fan

Product selection

Type of contact	Installation type	Shortest switching times	Programmable every	Operating voltage	Type	Article number
Changeover contact	Surface-mounted	2 min, 1 h	1 min, 1 h	230 V AC	FRI 77 g	0770033
	Drive with quick fastening for DIN rail	2 min, 1 h	1 min, 1 h	230 V AC	FRI 77 h-2	0770802
					FRI 77 g-2	0770832

Time and light control

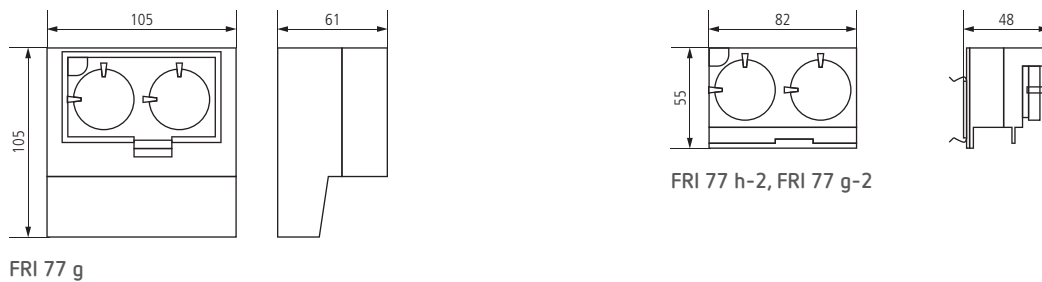
Analogue time switches, Surface-mounted/DIN rail

3

Technical data

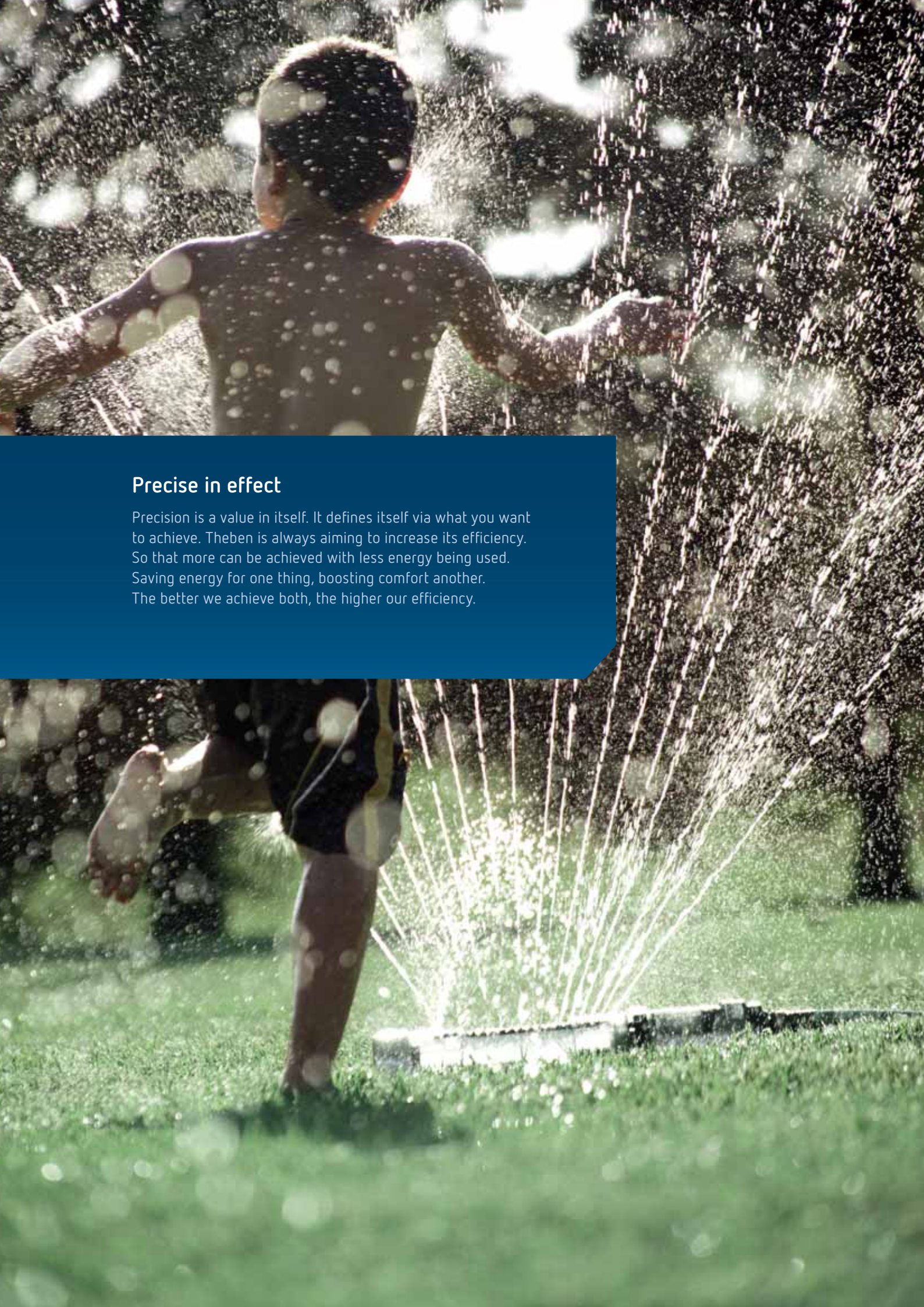
	FRI 77 g	FRI 77 h-2	FRI 77 g-2
Operating voltage	230 V AC		
Frequency	50 Hz		
Installation type	Surface-mounted	Drive with quick fastening for DIN rail	
Program	Daily and defrost program		
Switching capacity at 250 V AC, cos φ = 1	16 A		
Switching capacity at 250 V AC, cos φ = 0,6	2,5 A		
Shortest switching times	2 min, 1 h		
Programmable every	1 min, 1 h		
Time accuracy at 25 °C	Synchronised with mains		
Stand-by consumption	0,9 W		
Type of protection	IP 20	IP 00	
Protection class	II according to EN 60 730-1		
Ambient temperature	−10 °C ... +50 °C		

Scale drawings



Connection diagrams





Precise in effect

Precision is a value in itself. It defines itself via what you want to achieve. Theben is always aiming to increase its efficiency. So that more can be achieved with less energy being used. Saving energy for one thing, boosting comfort another. The better we achieve both, the higher our efficiency.

Description	Type	Page
-------------	------	------

Time relays

	Multi-function relay	TM 345 M	54
	Time relay with switch function	TM 345 B	54

Installation type	Size front plate	Type	Page
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Hour counters, analogue

	Front panel installation	48 x 48 mm	BZ 142-1	56
			BZ 142-3	56
		52 x 52 mm	BZ 143-1	56
	DIN rail	35 x 45 mm	BZ 145	56

Hour counters, digital

	Front panel installation	24 x 48 mm	BZ 146	58
		48 x 48 mm	BZ 147	58
	DIN rail	35 x 45 mm	BZ 148	58

Time and light control

Time relays



Description

Common functions

- Electronic time relay
- Can be used universally for controlling automatic processes in machines, lighting, ventilation, heating, cupboards etc.
- Precise analogue time setting
- Multi-voltage input for all supply and control voltages, no jumpers or additional terminals are required
- LED to display the switching status

TM 345 M

- Locking snap switch to select the period of time, as well as the following operating modes:
- Response delay (AV), without control contact
- Wipe contact (EW), without control contact
- Release delay (RV), with control contact
- Pulse former (IF), with control contact
- Response and release delay (VZ), with control contact
- Pulse output (WR), with control contact
- Flip-flop (TG)

TM 345 B

- With flip-flop function
- Pulse and break time independently adjustable

Product selection

Multi-function	Type	Article number
✓	TM 345 M	3450731
–	TM 345 B	3450730

Technical data

	TM 345 M	TM 345 B
Operating voltage	12 – 240 V AC/DC	24 – 240 V AC/24 V DC
Frequency	50 – 60 Hz	
Width	1 module	
Stand-by consumption	1 W	
Type of contact	Changeover contact	
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic	
Switching capacity at 250 V AC, $\cos \varphi = 1$	8 A	
Switching output	Potential-free	
Nominal current	10 mA – 20 A < 10 ms	
Electrical service life	10 ⁵ operating cycles	
Fall back value of nominal input voltage	< 10.2 V AC/DC (as per EN 61812-1)	< 20.4 V AC/DC (as per EN 61812-1)
Type of protection	IP 20	
Protection class	II	
Ambient temperature	–20 °C ... +60 °C	

Accessories

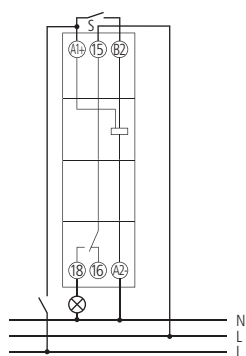
Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

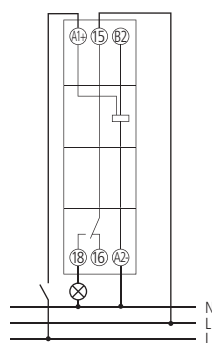
Details page 246



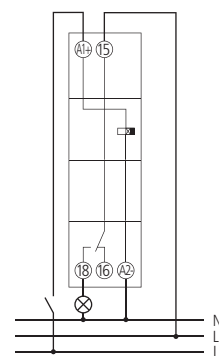
Connection diagrams



TM 345 M



TM 345 M



TM 345 B

Time and light control

Hour counters, analogue, front panel and DIN rail



BZ 142-1



BZ 142-3



BZ 145

Description

Common functions

- Hour counter with synchronous motor drive

BZ 142-1

- Front panel devices with click-in or stretch clamp supports for walls up to a maximum of 10 mm thick
- Clamp or flat plug connection 6.3 mm
- Versions for direct voltage with quartz-controlled stepper motor
- Progress display

BZ 142-3

- With plug-in base for wall installation (terminal cover required)
- Plug-in base with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Screw terminals
- Contact protection to comply with accident prevention regulation BGV A3
- Housing colour: anthracite
- Versions for direct voltage with quartz-controlled stepper motor
- Progress display

BZ 143-1

As BZ 142-1

BZ 145

- Built in distributor device with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Top mounting with additional terminal box cover plate, sealable
- Control panel installation with assembly kit No. 907 0 001
- Contact protection to comply with accident prevention regulation BGV A3
- Captive screw terminals

Product selection

Counting range	Installation type	Size front plate	Size of Installation section	Operating voltage	Type	Article number
99 999,99 hours without reset	Front panel installation	48 x 48 mm	46 x 46 mm	230 V AC	BZ 142-1	1420721
				10–80 V DC	BZ 142-1 10V	1420821
				230–240 V AC	BZ 142-1 230V	1420621
				24 V AC	BZ 142-1 24V	1424721
				230 V AC	BZ 142-3	1420723
				10–80 V DC	BZ 142-3 10V	1420823
99 999,9 hours without reset	DIN rail	35 x 45 mm	35 x 45 mm (depth 60 mm)	230 V AC	BZ 143-1	1430721
				230 V AC	BZ 145	1450000
				24–48 V DC	BZ 145 24V	1459024

Technical data

	BZ 142-1	BZ 142-1 10V	BZ 142-1 230V	BZ 142-1 24V	BZ 142-3	BZ 142-3 10V	BZ 143-1	BZ 145	BZ 145 24V
Operating voltage	230 V AC	10–80 V DC	230–240 V AC	24 V AC	230 V AC	10–80 V DC	230 V AC	230 V AC	24–48 V DC
Frequency	50 Hz	–	60 Hz	50 Hz		–	50 Hz		–
Width		–						2 modules	
Installation type		Front panel installation						DIN rail	
Counting range		99 999,99 hours without reset						99 999,9 hours without reset	
Type of protection		Front frame IP 65						IP 20	
Protection class		II according to EN 60 335-1							
Ambient temperature		–20 °C ... +70 °C						–10 °C ... +70 °C	

Accessories



Clamp BZ

for BZ 142-1, BZ 143-1

↳ Art.No.: 9070043

Details page 248



Cover 72 x 72 for BZ

for BZ 142-1

↳ Art.No.: 9070074

Details page 248



Front kit BZ 142-3

for BZ 142-3

↳ Art.No.: 9070075

Details page 248



Cover 55 x 55 for BZ

for BZ 142-1

↳ Art.No.: 9070041

Details page 248



Plug-in socket BZ

for BZ 142-3

↳ Art.No.: 9070042

Details page 248



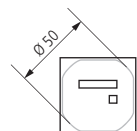
Wall mounting kit 35 mm

for BZ 145

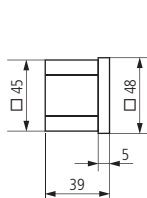
↳ Art.No.: 9070064

Details page 246

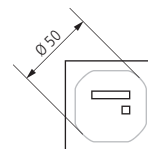
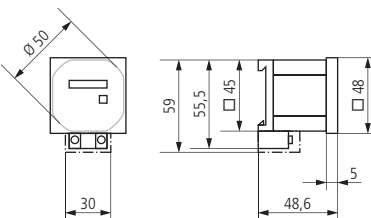
Scale drawings



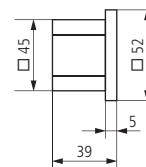
BZ 142-1



BZ 142-3

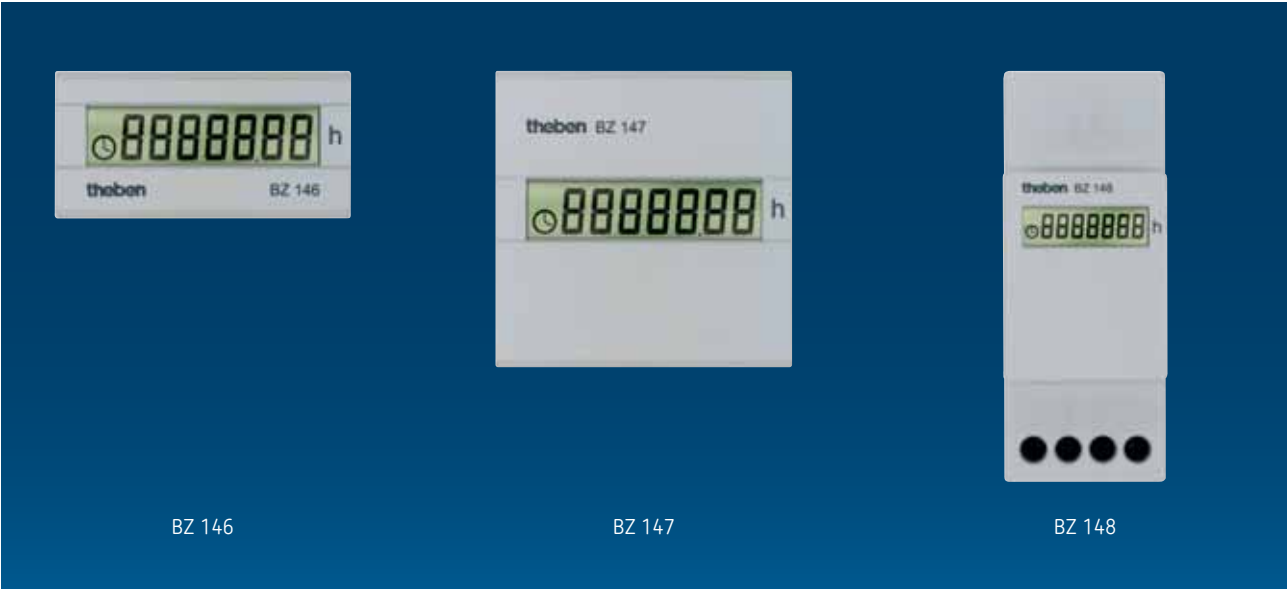


BZ 143-1



Time and light control

Hour counters, digital, front panel and DIN rail



Description

Common functions

- Digital hour counter
- With EEPROM memory provides reliable operating data capture even with loss of power
- 7-digit high-contrast LCD display
- Onscreen progress display

BZ 146

- Installation cutout 22 mm x 45 mm
- Control panel installation
- Screw terminals
- Tension clamp brackets for walls up to 5mm thick
- Quartz controlled version

BZ 147

- Installation cutout 45 mm x 45 mm
- Control panel installation
- Screw terminals
- Tension clamp brackets for walls up to 5 mm thick
- Quartz controlled version

BZ 148

- For DIN rail mounting with quick fastening for 35 mm profile rails (DIN EN 60 715)
- Surface mounting with additional terminal box cover plate option
- Captive screw terminals

Product selection

Counting range	Installation type	Size front plate	Size of Installation section	Operating voltage	Type	Article number
99 999,99 hours without reset	Front panel installation	24 x 48 mm	22 x 45 mm	110–240 V AC	BZ 146	1460000
		48 x 48 mm	45 x 45 mm	110–240 V AC	BZ 147	1470000
999 999,9 hours without reset	DIN rail	35 x 45 mm	35 x 45 mm (depth 60 mm)	24–240 V AC/12–150 V DC	BZ 148	1480000

Technical data

	BZ 146	BZ 147	BZ 148
Operating voltage	110–240 V AC		24–240 V AC/12–150 V DC
Frequency	50–60 Hz		
Width	–		2 modules
Installation type	Front panel installation		DIN rail
Counting range	99 999,99 hours without reset		999 999.9 hours without reset
Type of protection	IP 65		IP 20
Protection class	II according to EN 61010		
Ambient temperature	–30 °C ... +70 °C		–10 °C ... +70 °C

Accessories

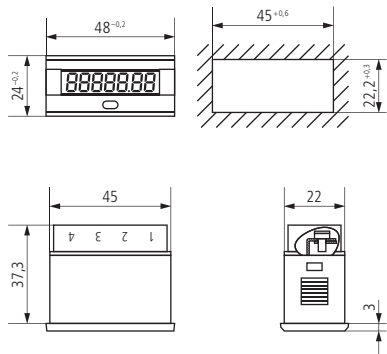


Clamp BZ
for BZ 146, BZ 147
↳ Art.No.: 9070043
Details page 248

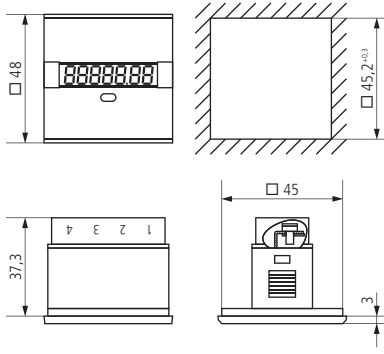


Wall mounting kit 35 mm
for BZ 148
↳ Art.No.: 9070064
Details page 246

Scale drawings

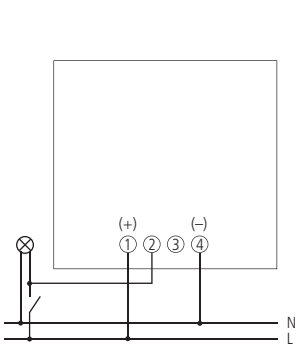


BZ 146

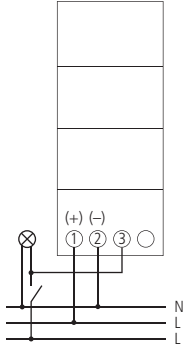


BZ 147

Connection diagrams



BZ 146, BZ 147



BZ 148



Everything in view

When Paul Schwenk developed the first staircase time switch in 1921, it was due to his special kind of attentiveness. He noticed that the staircase light never switched off so lots of energy was being wasted. What then may have been no more than an expression of his frugality is now in demand worldwide as a consequence of climate change: using energy sensibly. Theben has been making a contribution to that for a long time now and not just with staircase light time switches. We call that attentiveness.

Time and light control Staircase time switches/Dimmer

	Setting range time	Key input	Multi-voltage input	Switch-off pre-warning	Long-time function	Zero-cross switching	Without stand-by consumption	Type	Page
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Staircase time switches, DIN rail, electronic with multi-function

	0,5–20 min	150 mA	✓	✓	60 min	✓	–	ELPA 1	62
			–	✓	60 min	✓	–	ELPA 6	62

Staircase time switches, DIN rail, electronic

	0,5–20 min	150 mA	✓	–	–	–	–	ELPA 3	62
			–	–	–	–	–	ELPA 7	62

Staircase time switches, DIN rail, electro-mechanical

	1–7 min	50 mA	–	–	–	–	✓	ELPA 8	64
								ELPA 9	64

Staircase time switches, flush-mounted, electronic with multi-function

	0,5–20 min	30 mA	✓	✓	60 min	✓	–	ELPA 041	66
--	------------	-------	---	---	--------	---	---	----------	----

Staircase time switches, flush-mounted, electronic

	0,5–20 min	30 mA	–	–	–	✓	–	ELPA 047	66
---	------------	-------	---	---	---	---	---	----------	----

	Universal dimmer for R, L, and C loads	Dimming output	Multivoltage input	Automatic overload and overheating switch-off	Soft-ON/ Soft-OFF	Saveable switch-on brightness	Comfort functions	Type	Page
--	--	-------------------	-----------------------	---	----------------------	-------------------------------------	----------------------	------	------

Dimmer

	✓	✓	✓	✓	✓	✓	–	DIMAX 532 plus	68
							✓	DIMAX 534 plus	68

Time and light control

Staircase time switches, DIN rail, electronic



ELPA 1



ELPA 6



ELPA 3

Description

Common functions

- Staircase time switch, electronic
- Terminal layout same as ELPA 8
- Extremely accurate
- Push button input with electronic overload protection
- Automatic 3 or 4 conductor detection (4 conductor with connection for floor lighting, 3 conductor no longer permitted for new systems)

ELPA 1

- Zero-cross switching for relay-saving switching and high lamp loads
- Multi-functional device with 10 available functions, set at the front of the device
- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. for intercoms

- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness
- Extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (impulse switch with switch-off delay)
- Permanent switch
- Electronic impulse light

ELPA 6

- Zero-cross switching for relay-saving switching and high lamp loads
- Multi-functional device with 10 available functions, set at the front of the device
- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness

- Extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (impulse switch with switch-off delay)
- Permanent switch
- Electronic impulse light

ELPA 3

- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. for intercoms
- Immediate secondary switching
- Toggle switch for permanent light

ELPA 7

As ELPA 3, but:

- Without multi-voltage input

Product selection

Incandescent lamp load	Multi-function	Multi-voltage input	Switch-off pre-warning	Zero-cross switching	Type	Article number
3600 W	✓	✓	✓	✓	ELPA 1	0010002
		–	✓	✓	ELPA 6	0060002
2300 W	–	✓	–	–	ELPA 3	0030002
		–	–	–	ELPA 7	0070002

Time and light control

Staircase time switches, DIN rail, electronic

5

Technical data

	ELPA 1	ELPA 6	ELPA 3	ELPA 7
Operating voltage	220–240 V AC			
Frequency	50–60 Hz			
Stand-by consumption	0,9 W		0,7 W	
Glow lamp load	150 mA			
Setting range time	0,5–20 min			
3/4-way conductors	Automatic			
Type of contact	NO contact			
Switching output	Not potential-free (230 V)			
Incandescent/halogen lamp load	3600 W		2300 W	
Fluorescent lamp load (conventional) lead-lag circuit	3600 VA		2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	1200 VA, 120 µF		400 VA, 42 µF	
Energy saving lamps	34 x 7 W, 27 x 11 W, 24 x 15 W, 22 x 23 W		9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W	
LED lamps < 2 W	55 W		20 W	–
LED lamps 2–8 W	150 W		55 W	–
Switching capacity	16 AX (at 230 V AC, cos φ = 0.3), 16 A (at 230 V AC, cos φ = 1)		10 AX (at 230 V AC, cos φ = 0.3), 16 A (at 230 V AC, cos φ = 1)	
Test approval				–
Ambient temperature	–25 °C ... +50 °C			
Protection class	II			
Type of protection	IP 20			

Accessories



Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

Details page 246

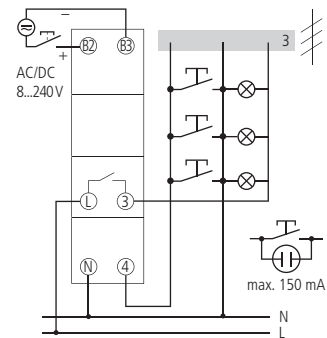


Front panel kit

↳ Art.No.: 9070001

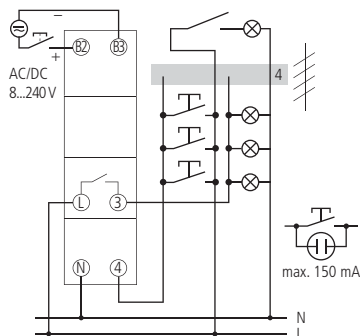
Details page 246

Connection diagram

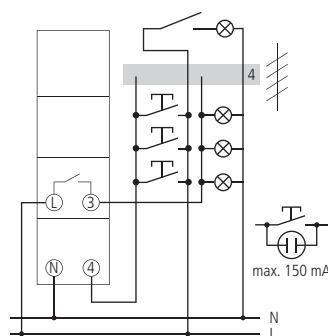


ELPA 1, ELPA 3

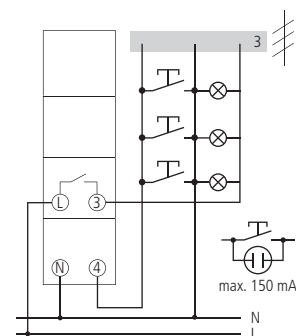
Connection diagrams



ELPA 1, ELPA 3



ELPA 6



ELPA 6

Time and light control
Staircase time switches, DIN rail, electro-mechanical



Description

ELPA 8

- Staircase time switch, electro-mechanical
- 4 conductor with floor lighting connection
- 3 conductor without floor lighting (no longer permitted for new systems)
- Retriggerable
- No closed-circuit current consumption
- Toggle switch for permanent light ON
- Reliable due to synchronous motor drive
- Simplest possible time setting and direct delay time readout on absolute scale
- Precision mechanics and therefore exact switching period
- Very low sensitivity to interference

ELPA 9

- Staircase time switch, electro-mechanical
- 3 conductor connection and floor lighting, but without secondary switching (no longer permitted for new systems)
- Terminal layout same as ELPA 8
- No closed-circuit current consumption
- Toggle switch for permanent light ON
- Reliable due to synchronous motor drive
- Simplest possible time setting and direct delay time readout on absolute scale
- Precision mechanics and therefore exact switching period
- Very low sensitivity to interference

Product selection

Incandescent lamp load	Setting range time	Without stand-by consumption	Switch-off pre-warning	3/4-way conductors	Secondary switching	Type	Article number
2300 W	1 – 7 min	✓	–	Yes	After 30 s	ELPA 8	0080002
				Only 3-way conductor	No	ELPA 9	0090001

* According to guarantee conditions, see www.theben.de/en/guarantee

Time and light control

Staircase time switches, DIN rail, electro-mechanical

5

Technical data

	ELPA 8	ELPA 9
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0 W	
Glow lamp load	50 mA	
Setting range time	1 – 7 min	
3/4-way conductors	Yes	Only 3-way conductor
Type of contact	NO contact	
Switching output	Not potential-free (230 V)	
Incandescent/halogen lamp load	2300 W	
Fluorescent lamp load (conventional) lead-lag circuit	2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	1300 VA, 70 µF	
Energy saving lamps	150 W	
LED lamps < 2 W	30 W	–
LED lamps 2 – 8 W	90 W	–
Switching capacity	6 AX (at 230 V AC, $\cos \varphi = 0.3$), 16 A (at 230 V AC, $\cos \varphi = 1$)	
Test approval		–
Ambient temperature	–10 °C ... +50 °C	
Protection class	II	
Type of protection	IP 20	

Accessories



Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

Details page 246

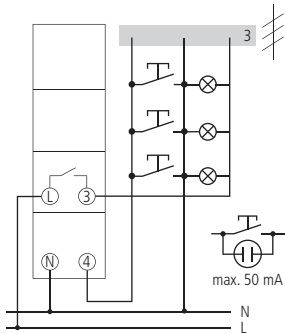


Front panel kit

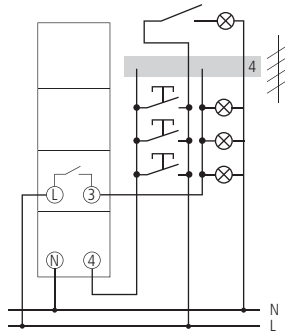
↳ Art.No.: 9070001

Details page 246

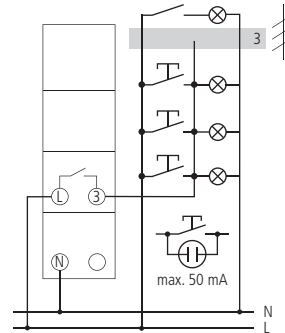
Connection diagrams



ELPA 8



ELPA 8



ELPA 9

Time and light control

Staircase time switches, flush-mounted, electronic



ELPA 041

ELPA 047

5

Description

Common functions

- Flush-mounted staircase time switch, electronic
- Suitable for upgrades and new installation
- Zero-cross switching for relay-saving switching and high lamp loads
- Push button input with electronic overload protection
- Automatic 3 or 4 conductor detection (4 conductor with connection for floor lighting, 3 conductor no longer permitted for new systems)
- Extremely accurate
- Immediate secondary switching

ELPA 041

- Multi-functional device with 12 available functions, set at the front of the device
- Switch or push button connectable, i.e. existing switches can be used (e.g. when updating)
- Additional multi-voltage input electrically isolated for AC/DC 8...240 V, e.g. für inter-coms
- Switch-off pre-warning (two double flashes) in accordance with DIN 18015-2 to avoid sudden darkness
- 60 min. extended function activated via long button press
- Immediate secondary switching (stair light switch) or prematurely switched off (impulse switch with switch-off delay)
- Can be connected via key or switch

ELPA 047

- Only push button connectable

Product selection

Incandescent lamp load	Multi-function	Multi-voltage input	Switch-off pre-warning	Zero-cross switching	Type	Article number
1800 W	✓	✓	✓	✓	ELPA 041	0410002
	—	—	—	✓	ELPA 047	0470002

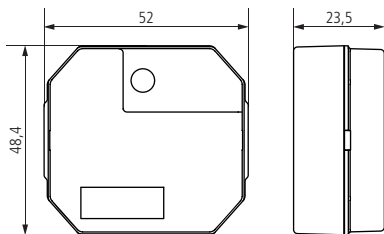
Time and light control

Staircase time switches, flush-mounted, electronic

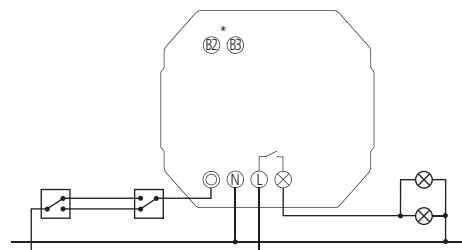
Technical data

	ELPA 041	ELPA 047
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0,1 W	
Glow lamp load	30 mA	
Setting range time	0,5–20 min	
3/4-way conductors	Automatic	
Type of contact	NO contact	
Switching output	Not potential-free (230 V)	
Incandescent/halogen lamp load	1800 W	
Fluorescent lamp load (conventional) lead-lag circuit	1200 VA	
Fluorescent lamp load (conventional) parallel-corrected	580 VA, 54 µF	
Energy saving lamps	13 x 7 W, 7 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	
LED lamps < 2 W	20 W	
LED lamps 2–8 W	70 W	
Switching capacity	6 AX (at 230 V AC, $\cos \varphi = 0.3$), 10 A (at 230 V AC, $\cos \varphi = 1$)	
Test approval		
Ambient temperature	–25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 20	

Scale drawings



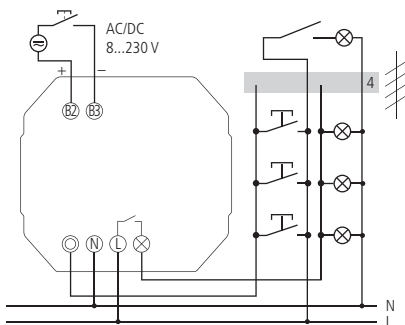
Connection diagram



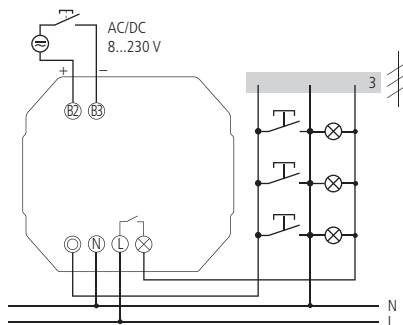
ELPA 041

* with switch (cannot be used with three way switch, multi-voltage input switch connection)

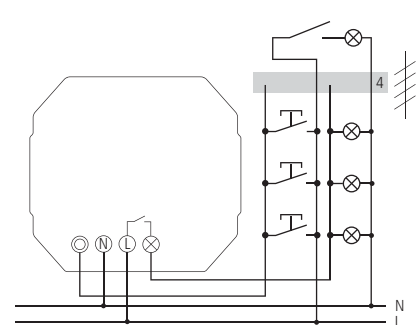
Connection diagrams



ELPA 041



ELPA 041



ELPA 047

Time and light control

Dimmer



DIMAX 532 plus



DIMAX 534 plus

Description

Common functions

- Universal dimmer for R, L and C loads with automatic load detection
- 400 W dimming output, 80 W dimmable energy saving lamps (ESL), 60 W dimmable LED
- Switch-on brightness can be saved individually
- Adjustable minimum brightness (required for ESL and LED)
- Multi-voltage input, e.g. for intercoms
- Low stand-by consumption
- Memory function in the event of power failure

- Automatic electronic overload and over-heating switch-off
- Dimming switch-on function
- Permanent ON function (test function)
- No minimum load requirement
- Soft ON and Soft OFF protects the light
- If the DMB 1 T KNX ‚Dimbooster‘ is used, the dimming output can be upgraded to 300 W

DIMAX 534 plus

- Comfort setting with wake-up and snooze function (can be deactivated), e.g. for children’s bedrooms
- Adjustable dimming rate (with automatic functions)

- One and two button operation for ease of use
- Up to 3 light scenes can be called up via separate input (diode module required for more than one light scene)
- Central OFF/ON or light scene for up to 10 devices possible with one push button
- Staircase light function with dimming function in accordance with DIN 18015-2 (resettable, long-time function)
- Can be controlled by push buttons or switches e.g. for combination with presence detectors or time switch

Product selection

Load detection	Optimized for energy-saving lamps	Light settings	Multi-function	Type	Article number
√	√	–	–	DIMAX 532 plus	5320001
		√	√	DIMAX 534 plus	5340001

Technical data

	DIMAX 532 plus	DIMAX 534 plus
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,2 W	
Incandescent/halogen lamp load	400 W	
Transformer electronic (C)	300 W	
Transformer inductive (L)	400 W	
Energy saving lamps	80 W (dimmable)	
LED lamp	60 W	
Ambient temperature	-30 °C ... +50 °C	
Protection class	II	
Type of protection	IP 20	

Accessories



Wall mounting kit 17,5 mm

↳ Art.No.: 9070065

Details page 246



Front panel kit

↳ Art.No.: 9070001

Details page 246



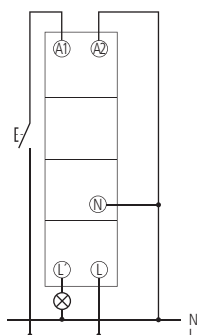
Diode module

for DIMAX 534 plus

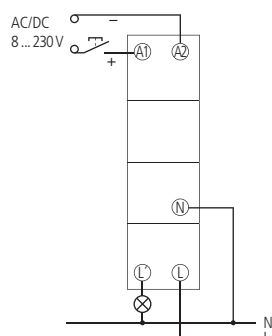
↳ Art.No.: 9070367

Details page 253

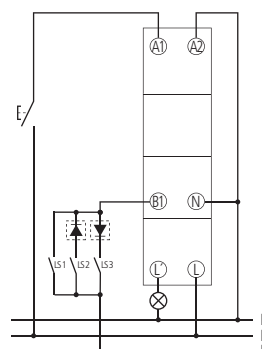
Connection diagrams



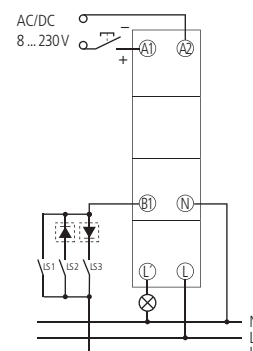
DIMAX 532 plus



DIMAX 532 plus



DIMAX 534 plus



DIMAX 534 plus



The right moment

What we don't consume today is still available to us tomorrow and for our children's generation. Often that doesn't mean having to do without anything. It means only using our resources when we actually need them. Theben contributes to this with a multitude of clever innovations such as twilight switches are one of these. That's what we mean by sustainability.

	Number of channels	Setting range brightness	Switch-on delay	Separate on/off switching delay	External inputs	PC interface	Program	Type of connection	Type	Page
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Analogue, DIN rail

	1	2–100 lx	20 s	–	–	–	–	Screw terminals	LUNA 108	72
		2–2000 lx	60 s	–	–	–	–	DuoFix spring terminals	LUNA 109	72
		2–50000 lx	0–20 min	–	–	–	–	DuoFix spring terminals	LUNA 110	72
		2–2000 lx	0–59 min	✓	–	✓	Weekly program	DuoFix spring terminals	LUNA 120 top2	76

Digital without clock, DIN rail

	1	1–99000 lx	0–59 min	✓	1	✓	–	DuoFix spring terminals	LUNA 111 top2	74
	2	1–99000 lx	0–59 min	✓	2	✓	–	DuoFix spring terminals	LUNA 112 top2	74

Digital, DIN rail

	1	1–99000 lx	0–59 min	✓	1	✓	Weekly program	DuoFix spring terminals	LUNA 121 top2 RC	76
	2	1–99000 lx	0–59 min	✓	2	✓	Weekly program	DuoFix spring terminals	LUNA 122 top2 RC	76

Analogue, Wall installation or mast bracket

	1	5–200 lx	40 s	–	–	–	–	Screw terminals	LUNA 126 star	78
		2–200 lx	2–100 s	–	–	–	–	Screw terminals	LUNA 127 star	78
		2–2000 lx	2–100 s	–	–	–	–	Screw terminals	LUNA 128 star	78

Digital, Wall installation or mast bracket

	1	2–200 lx	0–10 min	✓	–	–	Daily program	Screw terminals	LUNA 129 star-time	78
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Time and light control

Twilight switches, Analogue, DIN rail



Description

Common functions

- Analogue twilight switch
- External light sensor included in delivery
- Display of channel and switching status
- Infinitely adjustable switching brightness

LUNA 108

- Fixed On and Off switching delay

LUNA 109

- DuoFix spring terminals
- Fixed On and Off switching delay
- Test function

LUNA 110

- Adjustable On and Off switching delay
- DuoFix spring terminals
- Extended brightness levels and adjustable delay

- Five adjustable brightness levels for simple setting of lux value
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Permanent OFF and permanent ON function can be set on the potentiometer
- Test function

Product selection

Setting range brightness	Switch-on delay	Type of connection	Operating voltage	Sensor (included)	Type of protection	Type	Article number
2–100 lx	20 s	Screw terminals	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 54	LUNA 108 AL	1080710
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 108 EL	1080700
2–2000 lx	60 s	DuoFix spring terminals	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 109 AL	1090100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 109 EL	1090200
2–50000 lx	0–20 min	DuoFix spring terminals	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 110 AL	1100100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 110 EL	1100200
			12–24 V UC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 110 AL 24V	1104100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 110 EL 24V	1104200

Technical data

	LUNA 108	LUNA 109	LUNA 110	LUNA 110 24V
Operating voltage	220–240 V AC			12–24 V UC
Frequency	50–60 Hz			
Stand-by consumption	0,8 W	1,1 W	1,3 W	0,2 W
Setting range brightness	2–100 lx	2–2000 lx	2–50000 lx	
Switch-on delay	20 s	60 s	0–20 min	
Type of contact	NO contact	Changeover contact		
Switching output	Potential-free		Potential-free, not for SELV	Potential-free
Width	1 module	2 modules		
Switching capacity	16 A (at 250 V AC, cos φ = 1), 10 AX (Fluorescent lamp load)		16 A (at 250 V AC, cos φ = 1), 16 AX (Fluorescent lamp load)	16 A (at 250 V AC, cos φ = 1), 2 AX (Fluorescent lamp load)
Switching capacity min.	–		<10 mA	
Incandescent lamp load	2300 W		3600 W	1400 W
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA		3600 VA	1400 W
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 µF		1200 VA, 130 µF	58 W, 7 µF
Energy saving lamps	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W		34 x 7 W, 27 x 11 W, 24 x 15 W, 22 x 23 W	5 x 7 W, 4 x 11 W, 4 x 15 W, 4 x 20 W, 4 x 23 W
LED lamps < 2 W	20 W	20 W	50 W	–
LED lamps 2–8 W	55 W	55 W	160 W	–
Fluorescent lamp load (electronic ballast)	300 VA		1000 VA	180 W
Ambient temperature	–25 °C ... +50 °C	–30 °C ... +55 °C		
Protection class	II	II, Sensor III		
Max. cable length to sensor	25 m	100 m		

Accessories



Wall mounting kit 17,5 mm
for LUNA 108
↳ Art.No.: 9070065
Details page 246



Wall mounting kit 35 mm
for LUNA 109, LUNA 110
↳ Art.No.: 9070064
Details page 246



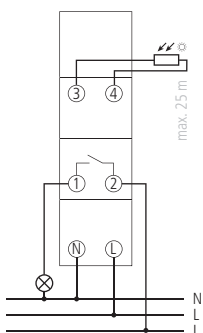
Front panel kit
↳ Art.No.: 9070001
Details page 246

Surface-mounted light sensor
Details page 253

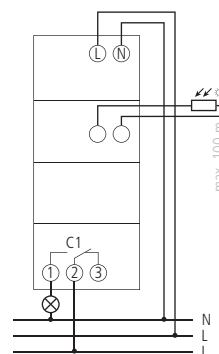
Analogue surface-mounted light sensor
Details page 253

Analogue flush-mounted light sensor
Details page 252

Connection diagrams



LUNA 108



LUNA 109, LUNA 110

Time and light control

Twilight switches, Digital without clock, DIN rail



LUNA 111 top2

LUNA 112 top2

Description

Common functions

- Light level controller
- External light sensor included in delivery
- Switching brightness digitally adjustable
- Adjustable On and Off switching delay
- Switching brightness and switching delay can be set separately for switching On and Off
- Onscreen display of channel and switching status as well as current lux value
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)

- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Interface for OBELISK top2 memory card (PC programming)
- Extended brightness range
- Permanent switching ON/OFF
- Test function
- Switching preselection
- Display back light (can be turned off)
- External input
- Operating hour counter

LUNA 111 top2

- 1 channel

LUNA 112 top2

- 2 channels
- 2 external control inputs
- Channel-independent operating hour counter

Product selection

Number of channels	External inputs	Switch-on delay	Sensor (included)	Type of protection	Type	Article number
1	1	0–59 min	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 111 top2 AL	1110100
			Flush-mounted light sensor	IP 20, sensor IP 66	LUNA 111 top2 EL	1110200
2	2	0–59 min	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 112 top2 AL	1120100
			Flush-mounted light sensor	IP 20, sensor IP 66	LUNA 112 top2 EL	1120200

Time and light control

Twilight switches, Digital without clock, DIN rail

Technical data

	LUNA 111 top2	LUNA 112 top2
Operating voltage	230–240 V AC	100–240 V AC
Frequency	50–60 Hz	
Stand-by consumption	1,7 W	1,3 W
Setting range brightness	1–99000 lx	
Switch-on delay	0–59 min	
Type of contact	Changeover contact	2 two-way changeover contacts
Switching output	Potential-free, not for SELV	
Width	2 modules	3 modules
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 10 A (at 250 V AC, $\cos \varphi = 0.6$), 10 AX (Fluorescent lamp load)	
Switching capacity min.	ca. 10 mA	
Incandescent lamp load	2600 W	
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	800 VA, 80 μ F	
Energy saving lamps	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	
LED lamps < 2 W	30 W	
LED lamps 2–8 W	100 W	
Fluorescent lamp load (electronic ballast)	650 VA	
Ambient temperature	–30 °C ... +55 °C	
Protection class	II, Sensor III	
Max. cable length to sensor	100 m	

Accessories



PC set OBELISK top2
↳ Art.No.: 9070409
Details page 247



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 247



Front panel kit
↳ Art.No.: 9070001
Details page 246

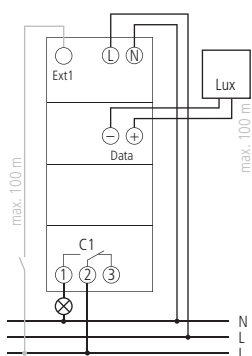
Digital surface-mounted light sensor
Details page 253

Digital flush-mounted light sensor
Details page 253

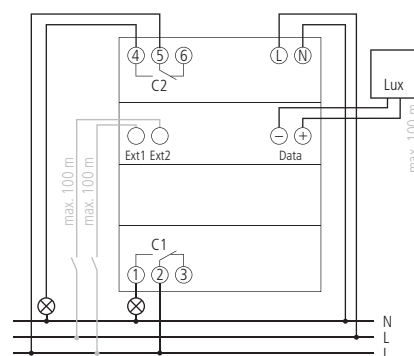
Wall mounting kit 35 mm
Details page 246

Wall mounting kit 52,5 mm
Details page 246

Connection diagrams



LUNA 111 top2



LUNA 112 top2

Time and light control

Twilight switches with time switch, Digital/Analogue, DIN rail



LUNA 121 top2 RC

LUNA 122 top2 RC

LUNA 120 top2

Description

Common functions

- Twilight switch with integrated weekly timer
- External light sensor included in delivery
- Fixed ON and OFF times (e.g. nighttime interruption)
- Different summer/winter time rules can be selected or freely defined
- Adjustable On and Off switching delay
- Switching brightness and switching delay can be set separately for switching On and Off
- DuoFix spring terminals
- Zero-cross switching for relay-saving switching and high lamp loads (not with 24 V devices)
- Interface for OBELISK top2 memory card (PC programming)
- Permanent switching ON/OFF
- Test function
- Switching preselection

- Display back light (can be turned off)
- Variable lux values can be set for each day
- Holiday and public holiday program with yearly function for fixed and public holidays dependent on Easter
- Operating hour counter

LUNA 121 top2 RC

- 1 channel
- 1 special programmes with yearly function
- DCF77 or GPS radio controlled time via external antenna
- Switching brightness digitally adjustable
- Onscreen display of channel and switching status as well as current lux value
- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Extended brightness range
- External input

LUNA 122 top2 RC

- 2 channels
- 2 special programmes with yearly function
- DCF77 radio controlled via external antenna
- 2 external inputs
- Switching brightness digitally adjustable
- Onscreen display of channel and switching status as well as current lux value
- Up to 4 sensors can be attached
- Up to 10 devices can be connected to a digital sensor
- Extended brightness range
- External input

LUNA 120 top2

- Analogue adjustable switching brightness
- Onscreen display of channel and switching status
- 1 channel

Product selection

Number of channels	External inputs	Additional program	Operating voltage	Sensor (included)	Type of protection	Type	Article number
1	1	Extra/Holiday program	230–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 121 top2 RC AL	1210100
				Flush-mounted light sensor	IP 20, sensor IP 66	LUNA 121 top2 RC EL	1210200
			12–24 V UC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 121 top2 RC AL 24V	1214100
				Flush-mounted light sensor	IP 20, sensor IP 66	LUNA 121 top2 RC EL 24V	1214200
2	2	Extra/Holiday program	100–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 122 top2 RC AL	1220100
				Flush-mounted light sensor	IP 20, sensor IP 66	LUNA 122 top2 RC EL	1220200
1	–	Holiday program	220–240 V AC	Surface-mounted light sensor	IP 20, sensor IP 55	LUNA 120 top2 AL	1200100
				Flush-mounted light sensor	IP 20, sensor IP 65	LUNA 120 top2 EL	1200200

Time and light control

Twilight switches with time switch, Digital/Analogue, DIN rail

Technical data

	LUNA 121 top2 RC	LUNA 121 top2 RC 24V	LUNA 122 top2 RC	LUNA 120 top2
Operating voltage	230–240 V AC	12–24 V UC	100–240 V AC	220–240 V AC
Frequency	50–60 Hz			
Stand-by consumption	1,3 W	0,8 W	1,3 W	
Setting range brightness	1–99000 lx			2–2000 lx
Switch-on delay	0–59 min			
Type of contact	Changeover contact		2 two-way changeover contacts	Changeover contact
Switching output	Potential-free, not for SELV	Potential-free	Potential-free, not for SELV	
Width	2 modules		3 modules	
Switching capacity	16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0.6), 10 AX (Fluorescent lamp load)	16 A (at 250 V AC, cos φ = 1), 2 AX (Fluorescent lamp load)	16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0.6), 10 AX (Fluorescent lamp load)	
Switching capacity min.	ca. 10 mA			
Incandescent lamp load	2600 W	1400 W	2600 W	
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA	1400 VA	2300 VA	
Fluorescent lamp load (conventional) parallel-corrected	800 VA, 80 µF	58 W, 7 µF	800 VA, 80 µF	
Energy saving lamps	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 4 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	
LED lamps < 2 W	30 W	–	30 W	30 W
LED lamps 2–8 W	100 W	–	100 W	100 W
Fluorescent lamp load (electronic ballast)	650 VA	180 W	650 VA	
Ambient temperature	–30 °C ... +55 °C			
Protection class	II, Sensor III			
Max. cable length to sensor	100 m			

Accessories



PC set OBELISK top2
↳ Art.No.: 9070409
Details page 247



Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 247



Antenna top2 RC-DCF
for LUNA 121 top2 RC,
LUNA 122 top2 RC
↳ Art.No.: 9070410
Details page 247

Light sensors
Details page 253

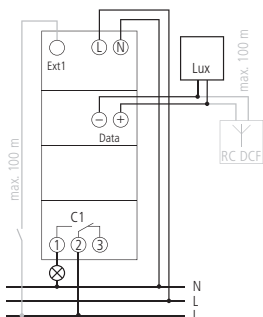
Wall mounting kits
Details page 246

Front panel kit
Details page 246

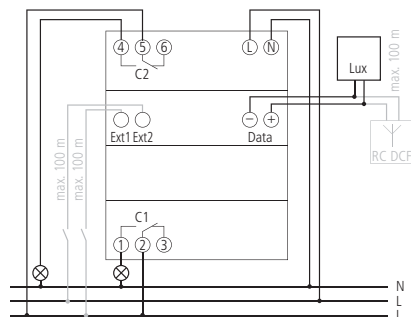
Antenna top2 RC-GPS
Details page 247

Power unit top2 GPS
Details page 247

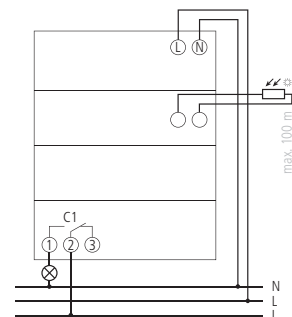
Connection diagrams



LUNA 121 top2 RC



LUNA 122 top2 RC



LUNA 120 top2

Time and light control

Twilight switches, Wall installation or mast bracket



LUNA 126 star

LUNA 129 star-time

6

Description

Common functions

- Twilight switch with integrated light sensor
- Cable feed from the back and from below
- Captive screws
- Large terminal area
- Brightness value can be set without opening the device
- Large light exposure angle (approx. 180 degrees)

LUNA 126 star

- Fixed On and Off switching delay
- Infinitely adjustable switching brightness

LUNA 127 star

- Adjustable On and Off switching delay
- Test button
- Infinitely adjustable switching brightness

LUNA 128 star

- As LUNA 127 star, but:
- Expanded brightness range
 - for monitoring installation independent of set brightness value. The button can be accessed without opening the device

LUNA 129 star-time

- Time function for freely-programmable night switch-off (daily program)
- Adjustable On and Off switching delay
- Easy programming philosophy
- Preset night switch-off (23.00 OFF/5.00 ON), lux values and switch delay
- Automatic summer/winter time correction
- Integrated replaceable lithium battery enables programming before installation
- Switching brightness and switching delay can be set digitally for switching On and Off separately
- Test button
- Time function can be deactivated

Product selection

Setting range brightness	Switch-on delay	Switching capacity at 230 V AC	Time program	Type	Article number
5–200 lx	40 s	16 (10) A AX	–	LUNA 126 star	1260700
2–200 lx	2–100 s	16 (10) A AX	–	LUNA 127 star	1270700
2–2000 lx	2–100 s	16 (10) A AX	–	LUNA 128 star	1280700
2–200 lx	0–10 min	16 (10) A AX	Daily program	LUNA 129 star-time	1290700

Time and light control

Twilight switches, Wall installation or mast bracket

Technical data

	LUNA 126 star	LUNA 127 star	LUNA 128 star	LUNA 129 star-time
Operating voltage	220–230 V AC			
Frequency	50–60 Hz			
Stand-by consumption	0,6 W			
Setting range brightness	5–200 lx	2–200 lx	2–2000 lx	2–200 lx
Switch-on delay	40 s	2–100 s		0–10 min
Type of contact	NO contact			
Switching output	Not potential-free (230 V)			
Switching capacity	16 A (at 230 V AC, cos φ = 1), 10 AX (at 230 V AC, cos φ = 0.3)			
Incandescent lamp load	2300 W			
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	2300 VA			
Energy saving lamps	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W			
Ambient temperature	–35 °C ... +55 °C			
Type of protection	IP 55			
Protection class	II			

Accessories

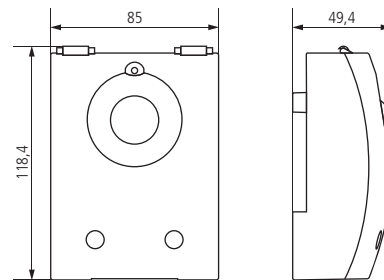


Adapter plate LUNA star

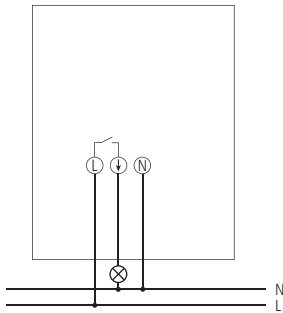
↳ Art.No.: 9070486

Details page 252

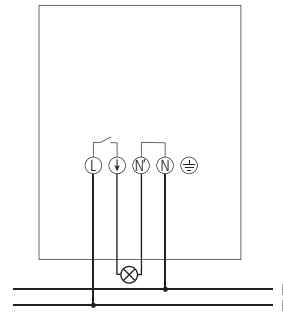
Scale drawings



Connection diagrams



LUNA 126 star, LUNA 127 star, LUNA 128 star



LUNA 129 star-time



Feel at home

Sometimes everything is just right: not too hot and not too cold. The air is fresh, without it being draughty. Daylight and artificial light are perfectly matched. Everything seems to have been made just for us - and so it is: when a ThebenHTS presence detector lies behind it. It gives everyone the pleasant feeling of being at home, even when you're not. And it is completely oriented towards you. Like Theben generally. We call that reliability.

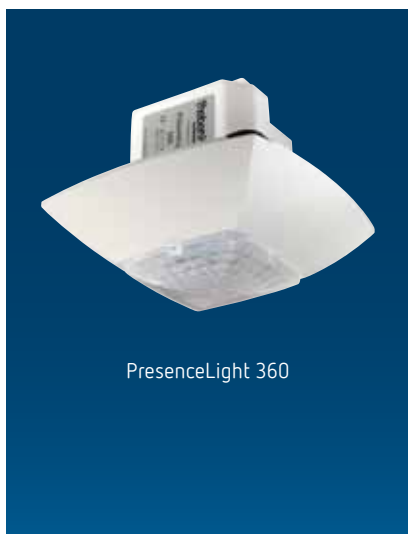
Presence and motion detectors

Presence detectors

	Installation type	Detection range - Sitting -	Detection range - Walking -	Channel	Function	Type of protection	Type	Page
230 V AC								
	Ceiling	20 m² (4.5 x 4.5 m)	49 m² (7,0 x 7,0 m)	Light	Switching	IP 54	PresenceLight 360	82
	Ceiling	20 m² (ø 5,0 m 360°)	133 m² (ø 13,0 m 360°)	Light	Switching	IP 41	SPHINX 104-360 AP	84
				Light Presence	Switching	IP 41	SPHINX 104-360/2 AP	84
				Light	Switching	IP 41	SPHINX 104-360	84
				Light Presence	Switching	IP 41	SPHINX 104-360/2	84
		28 m² (ø 6,0 m 360°)	452 m² (ø 24,0 m 360°)	Light Presence	Switching	IP 40	SPHINX 104-360/2 DIMplus	86
	Ceiling	20 m² (4.5 x 4.5 m)	49 m² (7,0 x 7,0m)	Light 1 – 10 V	Dimming	IP 40	compact office DIM	88
				DALI	Switching	IP 40	compact office DALI	90
	Ceiling	90 m² (20 x 4.5 m)	135 m² (30,0 x 4.5 m)	Light Presence	Switching	IP 40	compact passage	92
		45 m² (10 x 4.5 m)	68 m² (15,0 x 4.5 m)	Light Presence	Switching	IP 40	compact passimo	94
	Ceiling	25 m² (5,0 x 5,0 m)	49m² (7,0 x 7,0 m)	Light Presence	Switching	IP 40	thePrema S360-101	96
				Light	Switching	IP 40	thePrema S360-100	96
	Ceiling	49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	2 x light	Switching	IP 40	ECO-IR DUAL-C NT	98
	Ceiling			Light Presence	Switching	IP 40	thePrema P360-101	100
	Ceiling	49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	Light Presence	Switching	IP 40	PlanoCentro 101-EWH	102
				–	Switching	IP 40	PlanoCentro 000-EWH	102
	Ceiling			Light Presence	Switching	IP 40	PlanoCentro 101-UWH	102
				–	Switching	IP 40	PlanoCentro 000-UWH	102
	Ceiling	49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	2 x Light 1 x Presence	Switching	IP 40	PlanoCentro 201-E	104
				3 x light	Switching	IP 40	PlanoCentro 300-E	104
	Ceiling			2 x Light 1 x Presence	Switching	IP 40	PlanoCentro 201-U	104
				3 x light	Switching	IP 40	PlanoCentro 300-U	104
	Wall	28 m² (ø 7,0 m 180°)	100 m² (ø 16,0 m 180°)	Light	Switching	IP 54	PresenceLight 180	108
		32 m² (ø 8,0 m 180°)	100 m² (ø 16,0 m 180°)	Light Presence	Switching	IP 40	ECO-IR 180A	110
24 V AC/DC								
	Ceiling	20 m² (4.5 x 4.5 m)	49 m² (7,0 x 7,0 m)	Light Presence	Switching 24 V	IP 40	compact office 24V	112
				Light 0 – 10 V	Switching 24 V	IP 40	compact office 24V Lux	114
	Ceiling	90 m² (20 x 4.5 m)	135 m² (30,0 x 4.5 m)	Light Presence	Switching 24 V	IP 40	compact passage 24V	116
	Ceiling	49 m² (7,0 x 7,0 m)	81 m² (9,0 x 9,0 m)	Light Presence	Switching 24 V	IP 40	ECO-IR 360-24V	118
	Wall	32 m² (ø 8,0 m 180°)	100 m² (ø 16,0 m 180°)	Light Presence	Switching 24 V	IP 40	ECO-IR 180-24V	120

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- IP 54 for versatile use
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Pulse function for staircase time switch
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

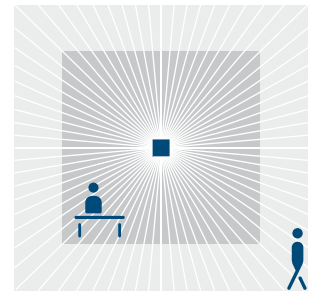
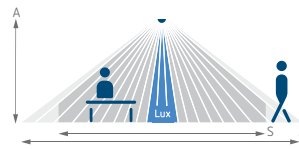
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	230 V AC	Pure white (similar to RAL 9010)	PresenceLight 360	2000000
			Black (similar to RAL 9005)	PresenceLight 360 BK	2000800
			Silver (similar to RAL 9006)	PresenceLight 360 SR	2000801
			Additional colours available upon request		

Technical data

	PresenceLight 360
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2–3 m
Power consumption	0.7 W
Setting range brightness	10–1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s–20 min
Type of contact light	Relay 230 V
Resistive load	2300 W
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos ϕ = 0.8), 580 VA (cos ϕ = 0.5)
Compact and fluorescent lamps (Number of electronic ballasts)	10 x (1 x 58 W), 5 x (2 x 58 W), 16 x (1 x 36 W), 8 x (2 x 36 W), 16 x (smaller than 36 W)
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	–20 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4.5 m x 4.5 m ± 0.5 m	9 m ² 3 m x 3 m
2.5 m	36 m ² 6 m x 6 m ± 0.5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4.5 m x 4.5 m
3.5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame PresenceLight

↳ Art.No.: 9070513
Details page 248



QuickSafe

↳ Art.No.: 9070531
Details page 250



SendoPro 868-A

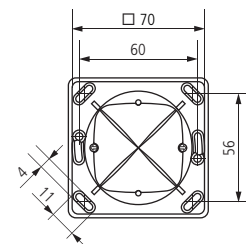
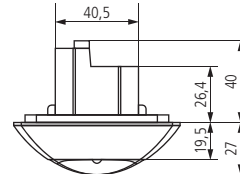
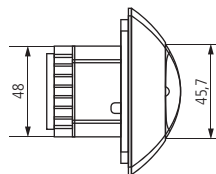
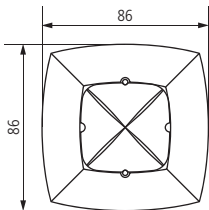
↳ Art.No.: 9070675
Details page 250



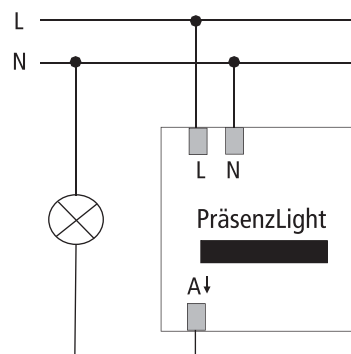
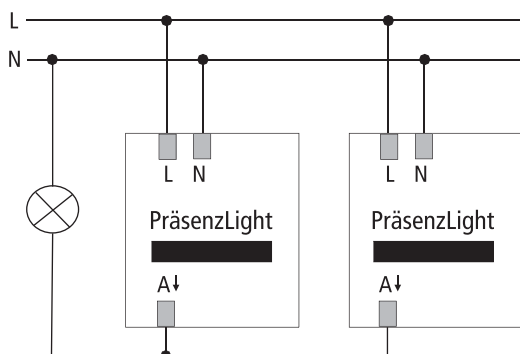
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↳ Art.No.: 9070515
Details page 251

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



SPHINX 104-360 AP



SPHINX 104-360

Description

Common functions

- Presence detector (PIR)
- Lighting control with adjustable light threshold value and adjustable switch-off delay
- Teach-in of current brightness value possible via remote control
- Additional impulse function can be selected for combination with staircase timer (ELPA), building automation or PLC
- Master/slave function: Up to ten detectors to expand detection area
- Test function for checking detection area
- Zero-cross switching

- Automatic lighting control based on presence and brightness
- Detection area can be limited using three enclosed segments
- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Instant start-up possible via factory preset
- Push-button or switch options for manual switching
- Screwless terminals for quick installation

SPHINX 104-360 AP

- 1 channel
- Surface-mounted installation

SPHINX 104-360/2 AP

- 2 channels
- Surface-mounted installation
- 2. Relay for HVAC control, presence dependent
- HVAC control with programmable switch-on and switch-off delay

SPHINX 104-360

- 1 channel
- Flush-mounted installation

SPHINX 104-360/2

- As SPHINX 104-360/2 AP, but:
- Flush-mounted installation

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Ceiling installation, Surface mounted	Light	360°	Pure white (similar to RAL 9010)	SPHINX 104-360 AP	1040360
	Light Presence	360°	Pure white (similar to RAL 9010)	SPHINX 104-360/2 AP	1040362
Ceiling installation	Light	360°	Pure white (similar to RAL 9010)	SPHINX 104-360	1040370
	Light Presence	360°	Pure white (similar to RAL 9010)	SPHINX 104-360/2	1040372

Technical data

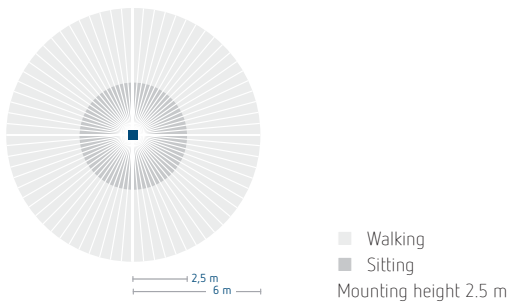
	SPHINX 104-360 AP	SPHINX 104-360/2 AP	SPHINX 104-360	SPHINX 104-360/2
Operating voltage	230 V AC			
Frequency	50–60 Hz			
Stand-by consumption	1 W			
Setting range brightness	10–2000 lx			
Switching capacity light	16 A (at 230 V AC, cos φ = 1)		8 A (at 230 V AC, cos φ = 1)	
Switching capacity presence	–	5 A (cos φ = 1) 250 V AC/30 V DC	–	3 A (cos φ = 1) 250 V AC/30 V DC
Detection angle	360°			
Recommended installation height	2.5–3.5 m			
Light switch-off delay	1 s–20 min			
Presence switch-off delay	–	1–120 min	–	1–120 min
Switch-on delay presence	–	0–60 min	–	0–60 min

Presence and motion detectors

Presence detectors, 230 V AC

	SPHINX 104-360 AP	SPHINX 104-360/2 AP	SPHINX 104-360	SPHINX 104-360/2
Incandescent lamp load	2000 W		1800 W	
Fluorescent lamp load (conventional) not corrected, series-corrected, lead-lag circuit	900 VA			
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 µF			
energy saving lamps	4 x 7 W, 3 x 11 W, 3 x 15 W, 3 x 20 W, 3 x 23 W			
Ambient temperature	− 10 °C ... +55 °C			
Protection class	II			
Type of protection	IP 41			

Detection range (Round)



Accessories

SPHINX RC 104 Pro

Details page 252

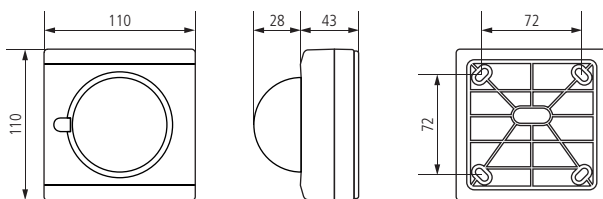
SPHINX RC 104

Details page 252

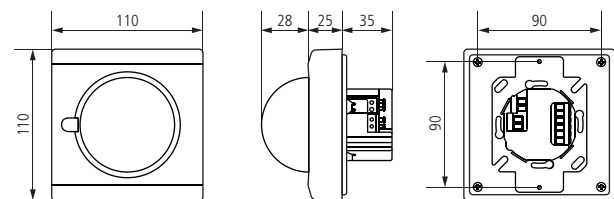
RC filter

Details page 251

Scale drawings

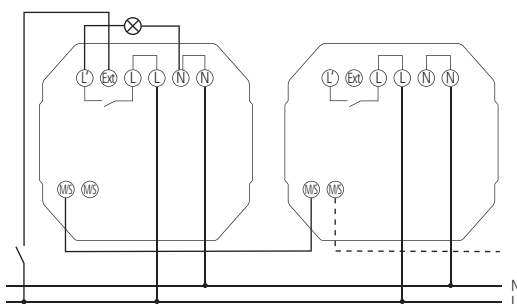


SPHINX 104-360 AP, SPHINX 104-360/2 AP

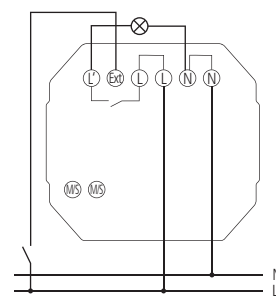


SPHINX 104-360, SPHINX 104-360/2

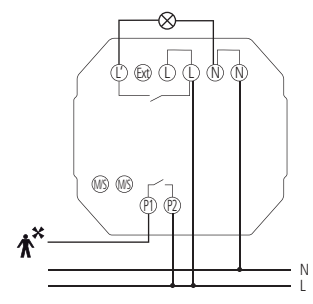
Connection diagrams



SPHINX 104-360 AP, SPHINX 104-360



SPHINX 104-360 AP,
SPHINX 104-360



SPHINX 104-360/2 AP,
SPHINX 104-360/2

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- 2 channels for application areas class and conference rooms
- Flush-mounted installation
- Channel 2 presence dependent, e.g. for blackboard lighting with programmable switch-off delay or for HVAC control
- Channel 1 for constant light control (1 – 10 V)
- Lighting control with adjustable light threshold value and adjustable switch-off delay
- Additional impulse function can be selected for combination with staircase timer (ELPA), building automation or PLC
- Test function for checking detection area
- Zero-cross switching
- Automatic lighting control based on presence and brightness
- Detection area can be limited using three enclosed segments
- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Instant start-up possible via factory preset
- Push-button or for manual switching
- Fully or semi-automatic: In „Fully automatic“ mode, the lighting switches on and off automatically according to presence and light In „Semi-automatic“ mode, it must be switched on manually and it switches off automatically

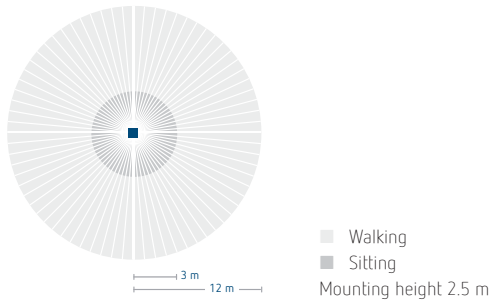
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Ceiling installation	Light Presence	360°	Pure white (similar to RAL 9010)	SPHINX 104-360/2 DIM plus	1040374

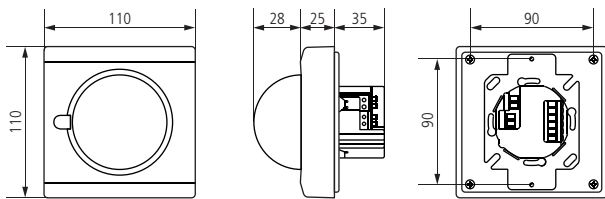
Technical data

SPHINX 104-360/2 DIM plus			
Operating voltage	230 V AC	Incandescent lamp load (channel presence)	400 W
Frequency	50 – 60 Hz	Fluorescent lamp load (conventional) not corrected (channel light)	900 VA
Stand-by consumption	1 W	Fluorescent lamp load (conventional) not corrected (channel presence)	200 VA
Setting range brightness	5 – 2000 lx	Fluorescent lamp load (conventional) series-corrected (channel light)	900 VA
Switching capacity light	4 A (at 230 V AC, cos φ = 1)	Fluorescent lamp load (conventional) series-corrected (channel presence)	200 VA
Switching capacity presence	2 A (cos φ = 1) μ, 250 V AC / 30 V DC	Fluorescent lamp load (electronic ballast) (channel presence)	60 VA
Detection angle	360°	Energy saving lamps (channel light)	4 x 7 W, 3 x 11 W, 3 x 15 W, 3 x 20 W, 3 x 23 W
Recommended installation height	2.5 – 3.5 m	Energy saving lamps (channel presence)	2 x 7 W, 2 x 11 W, 1 x 15 W, 1 x 20 W, 1 x 23 W
Switching output	Not potential-free (230 V)	Ambient temperature	–10 °C ... +55 °C
Switching output channel presence	Potential-free	Protection class	II
Light switch-off delay	1 s – 20 min	Type of protection	IP 40 (when fitted)
Presence switch-off delay	1 – 120 min		
Incandescent lamp load (channel light)	1000 W		

Detection range (Round)



Scale drawings



Accessories

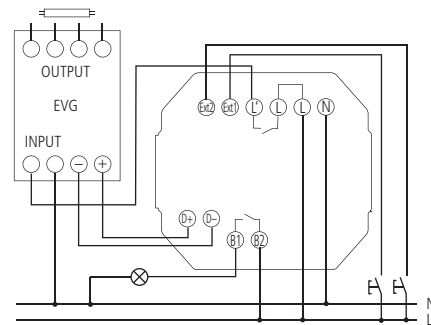


RC filter

↳ Art.No.: 9070523

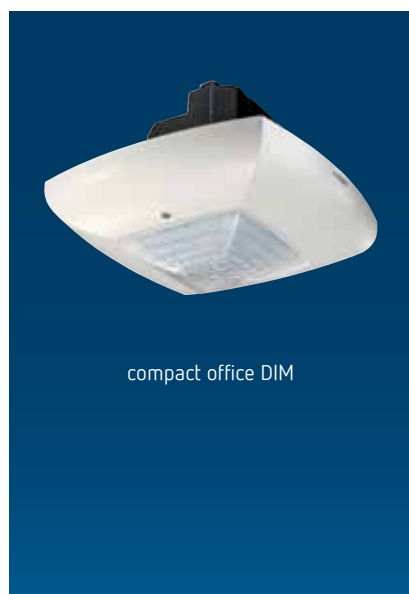
Details page 251

Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- Light switching output (relay, 230 V) and 1–10 V interface
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold, self-learning switch-off delay and stand-by time adjustable
- The stand-by time guarantees a minimum brightness and provides for a sense of security in hospital and care environments as the lighting does not switch off when areas are unoccupied but remains in stand-by mode for the set time
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

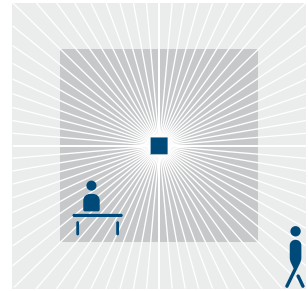
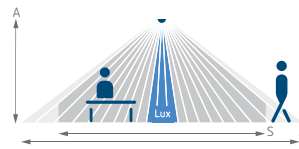
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light 1–10 V	230 V AC	Pure white (similar to RAL 9010)	compact office DIM	2010001
			Black (similar to RAL 9005)	compact office DIM BK	2010803
			Silver (similar to RAL 9006)	compact office DIM SR	2010804
			Additional colours available upon request		

Technical data

	compact office DIM
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2–3 m
Power consumption	0.8 W
Setting range brightness	ca. 10–1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s–20 min
Stand-by time light	0 s–60 min
Type of contact light	Relay 230 V
Resistive load	2300 W
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos ϕ = 0.8), 580 VA (cos ϕ = 0.5)
Compact and fluorescent lamps (Number of electronic ballasts)	10 x (1 x 58 W), 5 x (2 x 58 W), 16 x (1 x 36 W), 8 x (2 x 36 W), 16 x (smaller than 36 W)
Control output	1–10 V DC/100 mA as per EN 60929/A1
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4.5 m x 4.5 m ± 0.5 m	9 m ² 3 m x 3 m
2.5 m	36 m ² 6 m x 6 m ± 0.5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4.5 m x 4.5 m
3.5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SentoPro 868-A

↳ Art.No.: 9070675
Details page 250



clic

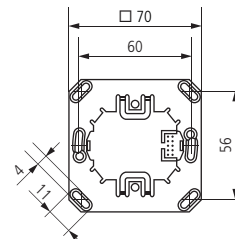
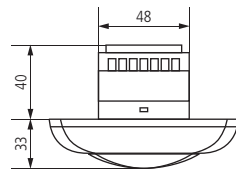
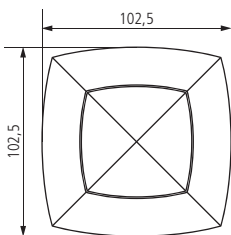
↳ Art.No.: 9070515
Details page 251



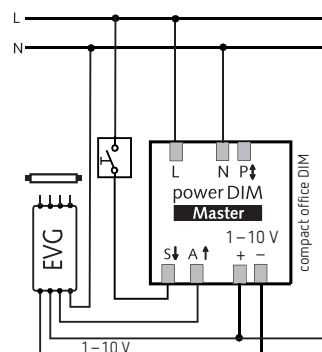
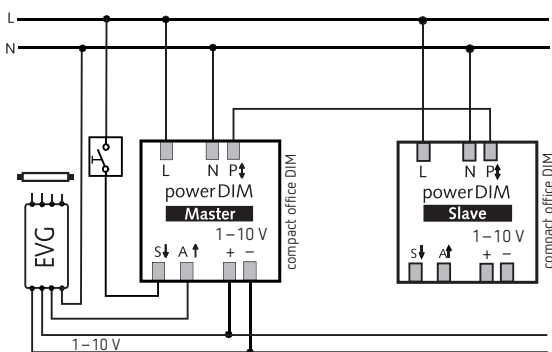
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Square 360° detection range for an accurate and simple planning
- DALI interface in accordance with EN 62386 for max. 25 DALI electronic ballasts
- Automatic allocation of DALI participants (DALI Broadcast)
- Automatic lighting regulation with constant light control
- Mixed light measurement suitable for switching fluorescent lamps (FL/PL), halogen and incandescent lamps as well as LEDs
- Facility to connect a push button for manual dimming and switching (single-button control)
- Fully or semi-automatic operation switch-selectable
- Brightness switching level, self-learning switch-off delay time, stand-by time and stand-by brightness can be adjusted
- Scene component with two built-in scenes
- Ready for immediate use due to factory preset
- Test mode for checking function and detection area
- Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched at the same time
- Ceiling installation in flush-mounted socket
- Ceiling installation possible with surface-mounted frame
- User remote control (option)
- Service remote control SendoPro (option)

Product selection

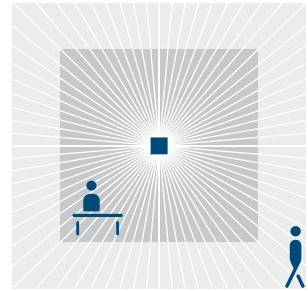
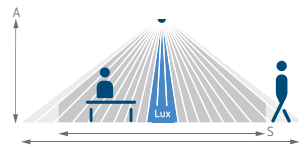
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	DALI	230 V AC	Pure white (similar to RAL 9010)	compact office DALI WH	2010010
			Black (similar to RAL 9005)	compact office DALI BK	2010011
			Silver (similar to RAL 9006)	compact office DALI SR	2010012
			Additional colours available upon request		

Technical data

	compact office DALI
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2 – 3 m
Power consumption	0.5 W
Setting range brightness	ca. 5 – 2000 lx
Light switch-off delay	10 s – 60 min
Stand-by time light	0 s – 60 min/on
Stand-by brightness	1 – 25 %
Control output	50 mA
Output light	DALI-interface according to IEC SN EN 62 386 for max. 25 DALI devices
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4.5 m x 4.5 m ± 0.5 m	9 m ² 3 m x 3 m
2.5 m	36 m ² 6 m x 6 m ± 0.5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4.5 m x 4.5 m
3.5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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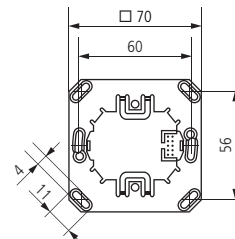
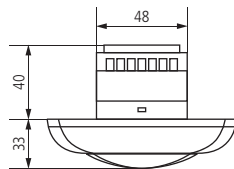
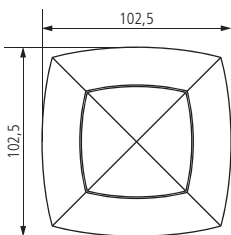
↳ Art.No.: 9070911
Details page 252



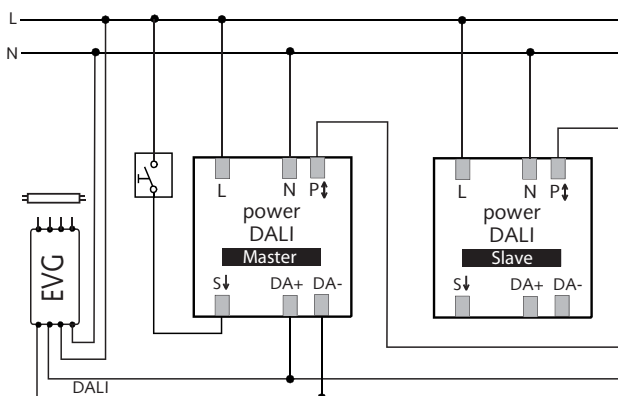
QuickSafe

↳ Art.No.: 9070531
Details page 250

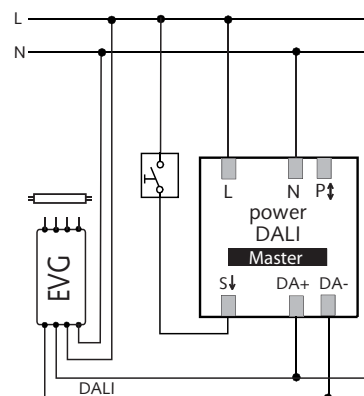
Scale drawings



Connection diagrams



compact office DALI



compact office DALI

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Rectangular detection area for corridors allows accurate and simple planning
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Push button or switch connection for manual control
- Pulse function for staircase time switch
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

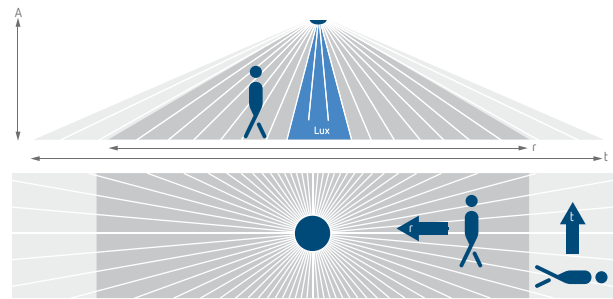
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	230 V AC	Pure white (similar to RAL 9010)	compact passage	2010090
			Black (similar to RAL 9005)	compact passage BK	2010806
			Silver (similar to RAL 9006)	compact passage SR	2010807
			Additional colours available upon request		

Technical data

	compact passage
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2 – 3.5 m
Power consumption	0.7 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s – 20 min
Type of contact light	Relay 230 V
Resistive load	2300 W
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos ϕ = 0.8), 580 VA (cos ϕ = 0.5)
Compact and fluorescent lamps (Number of electronic ballasts)	10 x (1 x 58 W), 5 x (2 x 58 W), 16 x (1 x 36 W), 8 x (2 x 36 W), 16 x (smaller than 36 W)
Switch-on delay presence	0 s – 10 min, room surveillance
Presence switch-off delay	10 s – 120 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (220 V DC), 50 VA (250 V AC) min. 0.5 mV/10 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Rectangular)

Mounting height (A)	Diagonally (t)	Head on to (r)
2 m	56 m² 16 m x 3.5 m ± 1 m	56 m² 16 m x 3.5 m ± 1 m
2.5 m	88 m² 22 m x 4 m ± 1 m	72 m² 18 m x 4 m ± 1 m
3 m	135 m² 30 m x 4.5 m ± 1 m	90 m² 20 m x 4.5 m ± 1 m
3.5 m	150 m² 30 m x 5 m ± 1 m	100 m² 20 m x 5 m ± 1 m
4 m	150 m² 30 m x 5 m ± 2 m	100 m² 20 m x 5 m ± 2 m
4.5 m	150 m² 30 m x 5 m ± 2 m	100 m² 20 m x 5 m ± 2 m
5 m	150 m² 30 m x 5 m ± 2.5 m	100 m² 20 m x 5 m ± 2.5 m
6 m	150 m² 30 m x 5 m ± 2.5 m	100 m² 20 m x 5 m ± 2.5 m



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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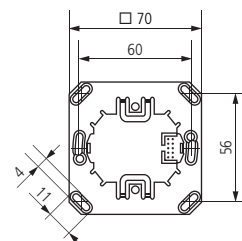
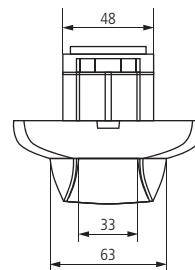
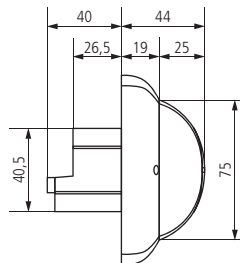
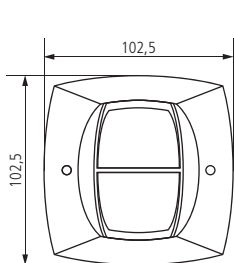
↳ Art.No.: 9070515
Details page 251



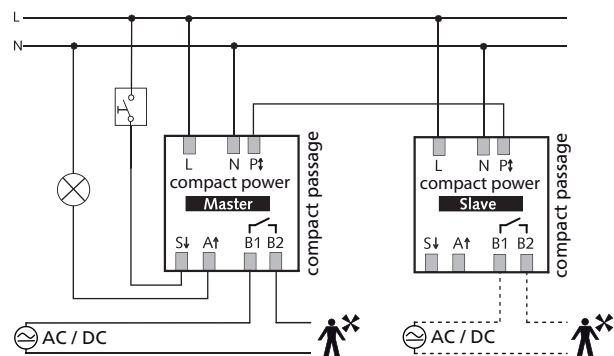
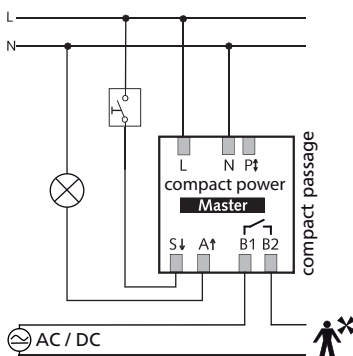
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Rectangular detection area for storage areas with clear demarcation vertically below the presence detector allows accurate and simple planning
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Push button or switch connection for manual control
- Pulse function for staircase time switch
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

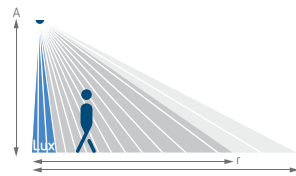
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	230 V AC	Pure white (similar to RAL 9010)	compact passimo WH	2010080
			Black (similar to RAL 9005)	compact passimo BK	2010809
			Silver (similar to RAL 9006)	compact passimo SR	2010810
			Additional colours available upon request		

Technical data

	compact passimo
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2 – 3.5 m
Power consumption	0.7 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s – 20 min
Type of contact light	Relay 230 V
Resistive load	2300 W
Incandescent/halogen lamp load	1200 W
Compact and fluorescent lamps	960 VA (cos ϕ = 0.8), 580 VA (cos ϕ = 0.5)
Compact and fluorescent lamps (Number of electronic ballasts)	10 x (1 x 58 W), 5 x (2 x 58 W), 16 x (1 x 36 W), 8 x (2 x 36 W), 16 x (smaller than 36 W)
Switch-on delay presence	0 s – 10 min, room surveillance
Presence switch-off delay	10 s – 120 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (220 V DC), 50 VA (250 V AC) min. 0.5 mV/10 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Rectangular)

Mounting height (A)	Diagonally (t)	Head on to (r)
2 m	28 m² 8 m x 3.5 m ± 1.5 m	28 m² 8 m x 3.5 m ± 1 m
2.5 m	44 m² 11 m x 4 m ± 1.5 m	36 m² 9 m x 4 m ± 1 m
3 m	68 m² 15 m x 4.5 m ± 1.5 m	45 m² 10 m x 4.5 m ± 1 m
3.5 m	75 m² 15 m x 5 m ± 1.5 m	50 m² 10 m x 5 m ± 1 m
4 m	75 m² 15 m x 5 m ± 2 m	50 m² 10 m x 5 m ± 2 m
4.5 m	75 m² 15 m x 5 m ± 2 m	50 m² 10 m x 5 m ± 2 m
5 m	75 m² 15 m x 5 m ± 2.5 m	50 m² 10 m x 5 m ± 2.5 m
6 m	75 m² 15 m x 5 m ± 2.5 m	50 m² 10 m x 5 m ± 2.5 m



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SentoPro 868-A

↳ Art.No.: 9070675
Details page 250



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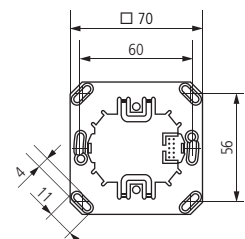
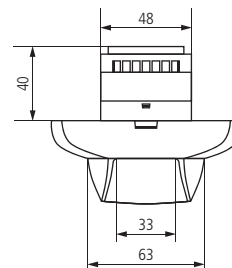
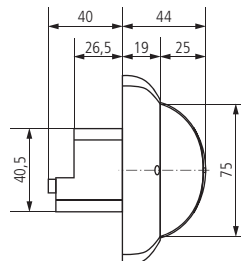
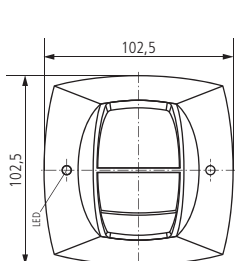
↳ Art.No.: 9070515
Details page 251



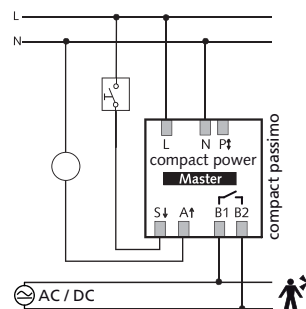
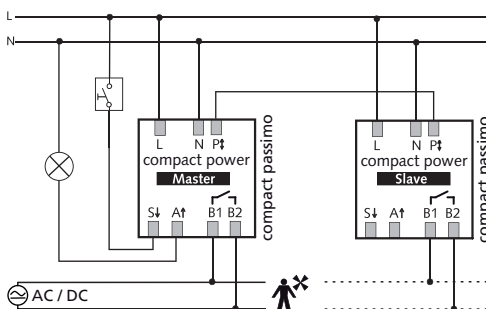
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Passive infrared presence detector for ceiling mounting
 - Square detection area 360° (up to 64 m²) for reliable and easy planning
 - Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
 - Choice of fully or semi-automatic operation
 - Adjustable brightness switching value, teach-in function
 - Self-learning time delay
 - Reduction of switch-off delay time in the event of short presence (brief-presence)
 - Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
 - Pulse function for staircase light time switch
 - Switch-on delay and switch-off delay configurable
 - Room monitoring with selective movement detection
 - Exceptionally easy configuration of the energy-saving behaviour with the new «eco plus» function
 - User remote control theSenda S, management remote control SendoPro (optional)
 - Ready for immediate use due to factory preset
 - Test mode for checking function and detection area
 - Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
 - Ceiling installation in flush-mounted socket
 - Ceiling installation also possible with surface-mounted frame
- thePrema S360-101**
- Automatic presence- and brightness-dependent control for lighting and HVAC
 - Channel A, light: relay, 230 V
 - Channel H, presence: relay, floating e.g. for HVAC control
- thePrema S360-100**
- Automatic presence- and brightness-dependent control for lighting
 - Channel A, light: relay, 230V
- thePrema S360 Slave**
- Slave version for thePrema
 - Just to be used with thePrema as Master

Product selection

Installation type	Channel	Function	Colour	Type	Article number
Ceiling installation	Light Presence	Master	White	thePrema S360-101 UP WH	2070505
			Grey	thePrema S360-101 UP GR	2070506 *
	Light	Master	White	thePrema S360-100 UP WH	2070500
			Grey	thePrema S360-100 UP GR	2070501 *
	–	Slave	White	thePrema S360 Slave UP WH	2070530
			Grey	thePrema S360 Slave UP GR	2070531 *
			Additional colours available upon request		

* Available April 2014

Technical data

	thePrema S360-101 UP	thePrema S360-100 UP	thePrema S360 Slave UP
Operating voltage	230 V AC		
Frequency	50 Hz		
Recommended installation height	2 – 3 m		
Power consumption	0.5 W		0.3 W
Setting range brightness	ca. 5 – 3000 lx/on		–
Light switch-off delay	Pulse (0.5 s), 10 s – 60 min		–
Type of contact light	Relay 230 V/10 A µ-contact		–
Incandescent/halogen lamp load	2300 W		–
Compact and fluorescent lamps	1150 VA (cos φ = 0.5)		–

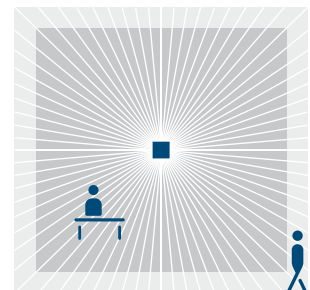
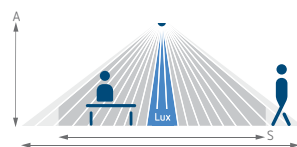
Presence and motion detectors

Presence detectors, 230 V AC

	thePrema S360-101 UP	thePrema S360-100 UP	thePrema S360 Slave UP
Switch-on power	max. 400 A/200 µs		–
Compact and flourescent lamps (Number of electronic ballasts)	16 x 54/58 W, 24 x 35/36 W, 8 x 2 x 54/58 W, 12 x 2 x 35/36 W		–
Switch-on delay presence	0 s–10 min/Room surveillance	–	
Presence switch-off delay	10 s–120 min	–	
Type of contact presence	Relay potential-free	–	
Switching capacity presence	50 W/50 VA (max. 2 A), min. 0.5 mV/10 mA	–	
Size of concealed housing	Ø 55 mm (NIS, PMI)		
Ambient temperature	0 °C ... +50 °C		
Type of protection	IP 40 (when fitted)		

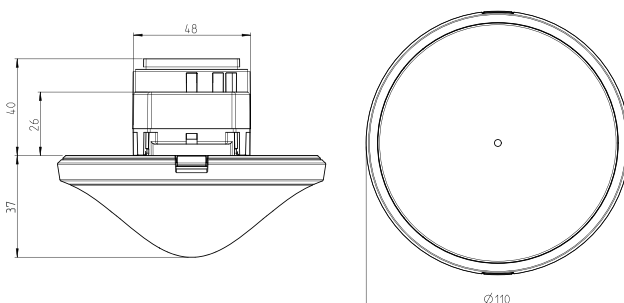
Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4 m x 4 m $\pm$ 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m $\pm$ 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 8 m $\pm$ 1 m	25 m ² 5 m x 5 m
3,5 m	64 m ² 8 m x 8 m $\pm$ 1 m	–



7

Scale drawings



Accessories



theSenda P
↳ Art.No.: 9070910
Details page 252

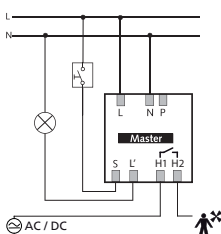
SendoPro 868-A
Details page 250

Surface frame 110A WH
Details page 248

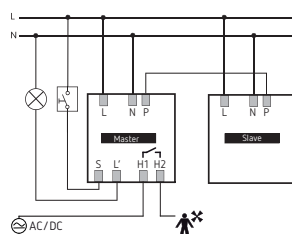
Ceiling installation box 73A
Details page 249

theSenda S
Details page 252

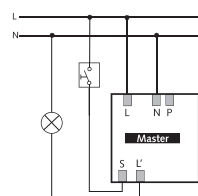
Connection diagrams



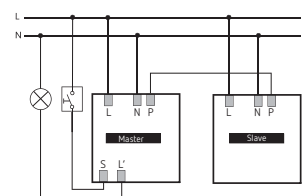
thePrema S360-101



thePrema S360-101,
thePrema S360 Slave



thePrema S360-100



thePrema S360-100,
thePrema S360 Slave

** According to guarantee conditions, see www.theben.de/en/guarantee

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of 2 lighting groups depending on presence and brightness
- Square detection area allows accurate and simple planning
- 2 light switch outputs (relay, 230 V)
- Genuine daylight measurement, suitable only for fluorescent lamps (FL/PL/ESL)
- 2 brightness thresholds and self-learning switch-off delay adjustable
- Push button or switch connection for manual control
- Inrush current limitation for EB
- Pulse function for staircase time switch
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

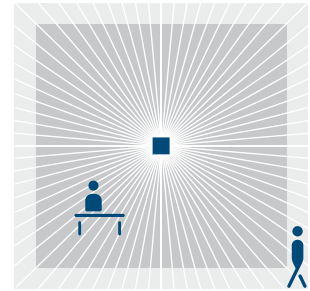
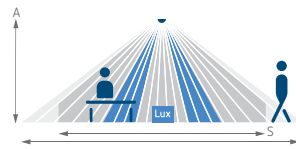
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	2 x light	230 V AC	Pure white (similar to RAL 9010)	ECO-IR DUAL-C NT	2020401
			Black (similar to RAL 9005)	ECO-IR DUAL-C NT BK	2020815
			Silver (similar to RAL 9006)	ECO-IR DUAL-C NT SR	2020816
			Additional colours available upon request		

Technical data

	ECO-IR DUAL-C NT
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	2 – 3.5 m
Power consumption	0.8 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	10 s – 20 min
Type of contact light	Relay 230 V, switch-on current limit
Compact and fluorescent lamps	max. 1400 VA (Total of both contacts)
Compact and fluorescent lamps (Number of electronic ballasts)	16 x (1 x 58 W), 8 x (2 x 58 W), 24 x (1 x 36 W), 12 x (2 x 36 W), 24 x (smaller than 36 W)
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0.5 m	20 m² 4.5 m x 4.5 m
2.5 m	64 m² 8 m x 8 m ± 0.5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 0.5 m	49 m² 7 m x 7 m
3.5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m
4 m	121 m² 11 m x 11 m ± 1 m	—



Accessories



Surface frame ECO-IR 360

↳ Art.No.: 9070512
Details page 249



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



clic

↳ Art.No.: 9070515
Details page 251

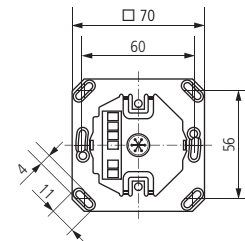
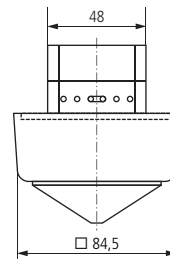
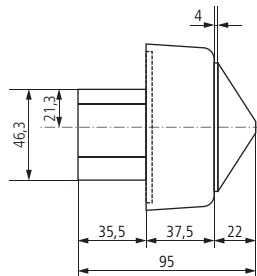
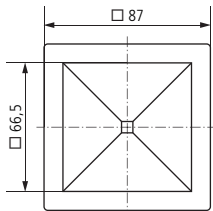
**QuickFix concrete
flush-mounted box**
Details page 250

**QuickFix flush-mounted
housing**
Details page 250

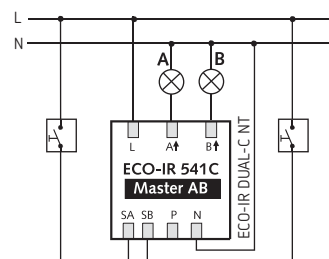
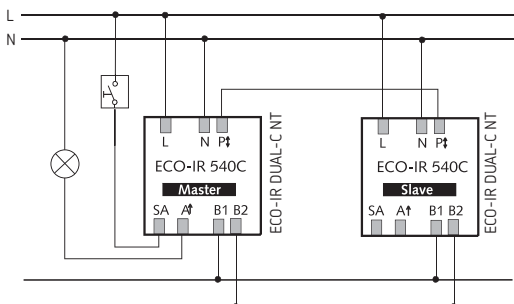
QuickSafe
Details page 250

QuickFix covers
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

thePrema P360-101

- Passive infrared presence detector for ceiling mounting
- Square detection area 360° (up to 100 m²) for reliable and easy planning
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Light measurement can be switched to spot or wide measurement
- Channel A, light: relay, 230V
- Choice of fully or semi-automatic operation
- Adjustable brightness switching value, teach-in function
- Self-learning time delay
- Reduction of switch-off delay time in the event of short presence (brief-presence)
- Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
- Pulse function for staircase light time switch
- Channel H, presence: relay, floating

- e.g. for HVAC control
- Switch-on delay and switch-off delay configurable
- Room monitoring with selective movement detection
- Exceptionally easy configuration of the energy-saving behaviour with the new «eco plus» function
- User remote control theSenda S, management remote control SendoPro (optional)
- Ready for immediate use due to factory preset
- Test mode for checking function and detection area
- Extension of detection area via Master/Slave or Master/Master switching, a maximum of 10 detectors can be switched in parallel with each other
- Ceiling installation in flush-mounted socket
- Ceiling installation also possible with surface-mounted frame

thePrema P360 Slave

- Slave version for thePrema
- Just to be used with thePrema as Master

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	230 V AC	White	thePrema P360-101 UP WH	2070005
			Grey	thePrema P360-101 UP GR	2070006 *
			White	thePrema P360 Slave UP WH	2070030
			Grey	thePrema P360 Slave UP GR	2070031 *
			Additional colours available upon request		

* Available April 2014

Technical data

	thePrema P360-101 UP	thePrema P360 Slave UP
Operating voltage	230 V AC	
Frequency	50 Hz	
Recommended installation height	2 – 3.5 m	
Power consumption	0.5 W	0.3 W
Setting range brightness	ca. 5 – 3000 lx/on	–
Light switch-off delay	Pulse (0.5 s), 10 s – 60 min	–
Type of contact light	Relay 230 V/10 A µ-contact	–
Incandescent/halogen lamp load	2300 W	–
Compact and fluorescent lamps	1150 VA (cos φ = 0.5)	–
Switch-on power	max. 400 A/200 µs	–
Compact and fluorescent lamps (Number of electronic ballasts)	16 x 54/58 W, 24 x 35/36 W, 8 x 2 x 54/58 W, 12 x 2 x 35/36 W	–
Switch-on delay presence	0 s – 10 min/Room surveillance	%
Presence switch-off delay	10 s – 120 min	–
Type of contact presence	Relay potential-free	–

Presence and motion detectors

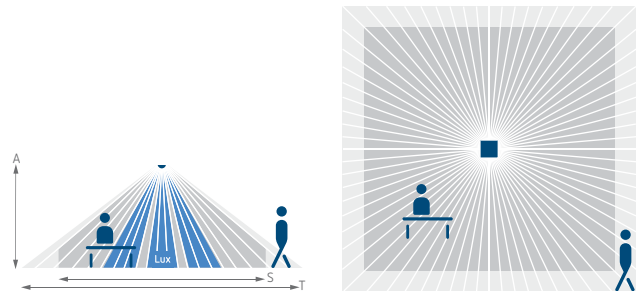
Presence detectors, 230 V AC

	thePrema P360-101 UP	thePrema P360 Slave UP
Switching capacity presence	50 W/50 VA (max. 2 A), min. 0.5 mV/10 mA	–
Size of concealed housing	Ø 55 mm (NIS, PMI)	
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

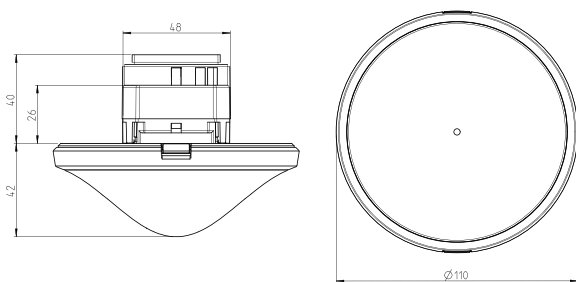
Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0.5 m	20 m² 4.5 m x 4.5 m
2.5 m	64 m² 8 m x 8 m ± 0.5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3.5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m

Suitable for mounting in large heights up to 10 m.
Please find detailed information in the technical documentation.



Scale drawings



Accessories



theSenda P
↳ Art.No.: 9070910
Details page 252

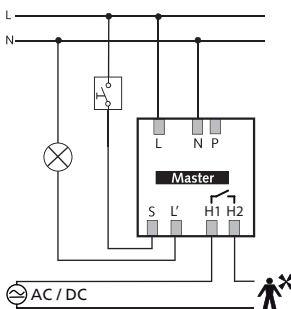
SendoPro 868-A
Details page 250

Surface frame 110A WH
Details page 248

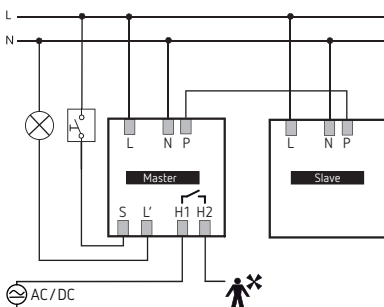
Ceiling installation box 73A
Details page 249

theSenda S
Details page 252

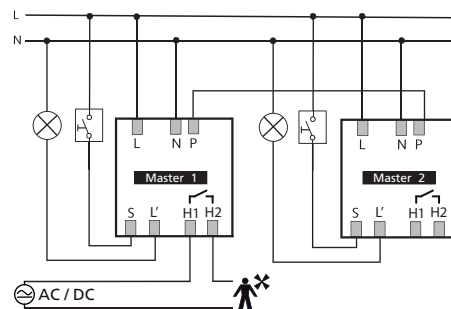
Connection diagrams



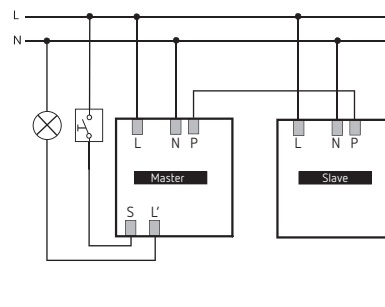
thePrema P360-101



thePrema P360-101, thePrema P360 Slave



thePrema P360-101



thePrema P360 Slave

** According to guarantee conditions, see www.theben.de/en/guarantee

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
 - Automatic control of lighting depending on presence and brightness
 - Flush design using concave mirror technology
 - Square detection area for accurate and easy planning
 - Light switch output (relay, 230 V)
 - Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen / incandescent lamps and LEDs
 - Brightness threshold and self-learning switch-off delay adjustable
 - Push button or switch connection for manual control
 - Pulse function for staircase time switch
 - Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
 - Presence switch output (relay, potential-free) for example for HVAC control
 - HVAC control with adjustable switch-on and switch-off delay
 - Function „monitoring“ with reduced sensitivity only to detect walking persons
 - Ready for use by 6 predefined settings, details can be set using the optional service remote control SendoPro
 - Parameters can be selected for subsequent changes
 - Adjustable sensitivity
 - Optional user remote control
 - Test operation to check detection area, installation, brightness settings
 - Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
 - Individual covers available upon request
- PlanoCentro 101-EWH**
- For ceiling installation (false ceilings)
 - With installation for false ceilings and cover
- PlanoCentro 000-EWH**
- Slave-Version for PlanoCentro 101-EWH
 - Just to be used with PlanoCentro 101-EWH as Master
- PlanoCentro 101-UWH**
- For flush-mounting (concrete ceiling)
 - With metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover
- PlanoCentro 000-UWH**
- Slave-Version for PlanoCentro 101-UWH
 - Just to be used with PlanoCentro 101-UWH as Master

Product selection

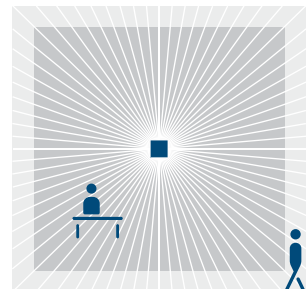
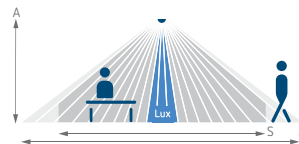
Installation type	Channel	Function	Colour	Type	Article number
Ceiling mounting with mounting frame	Light Presence	Master	Pure white (similar to RAL 9010)	PlanoCentro 101-EWH	2030102
			Black (similar to RAL 9005)	PlanoCentro 101-EBK	2030103
			Silver (similar to RAL 9006)	PlanoCentro 101-ESR	2030104
	–	Slave	Pure white (similar to RAL 9010)	PlanoCentro 000-EWH	2040102
			Black (similar to RAL 9005)	PlanoCentro 000-EBK	2040103
			Silver (similar to RAL 9006)	PlanoCentro 000-ESR	2040104
Ceiling installation (flush-mounting concrete)	Light Presence	Master	Pure white (similar to RAL 9010)	PlanoCentro 101-UWH	2030202
			Black (similar to RAL 9005)	PlanoCentro 101-UBK	2030203
			Silver (similar to RAL 9006)	PlanoCentro 101-USR	2030204
	–	Slave	Pure white (similar to RAL 9010)	PlanoCentro 000-UWH	2040202
			Black (similar to RAL 9005)	PlanoCentro 000-UBK	2040203
			Silver (similar to RAL 9006)	PlanoCentro 000-USR	2040204
			Additional colours available upon request		

Technical data

	PlanoCentro 101	PlanoCentro 000
Operating voltage	230 V AC	
Frequency	50 Hz	
Recommended installation height	2–3.5 m	
Power consumption	0.8 W	0.3 W
Setting range brightness	ca. 5–2000 lx/on	–
Light switch-off delay	Pulse (0.5 s), 10 s–60 min	–
Type of contact light	Relay 230 V/10 A	–
Incandescent/halogen lamp load	2300 W	–
Compact and fluorescent lamps	1150 VA (cos φ = 0.5)	–
Compact and fluorescent lamps (Number of electronic ballasts)	20 x 54 W, 25 x 39 W, 10 x 2 x 54 W, 15 x 2 x 39 W	–
Switch-on delay presence	0 s–10 min, room surveillance	–
Presence switch-off delay	10 s–120 min	–
Type of contact presence	Relay potential-free	–
Switching capacity presence	60 W (220 V DC), 62.5 VA (250 V AC), min. 0.5 mV/10mA	–
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0.5 m	20 m² 4.5 m x 4.5 m
2.5 m	64 m² 8 m x 8 m ± 0.5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3.5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m



Accessories



PlanoSets
for PlanoCentro E
↳ Art.No.: 9070736
Details page 249



PlanoBox 1WH
for PlanoCentro U
↳ Art.No.: 9070731
Details page 249



Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
↳ Art.No.: 9070689
Details page 249

theSenda S
Details page 252

SendoPro 868-A
Details page 250

Presence and motion detectors

Presence detectors, 230 V AC



PlanoCentro



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Flush design using concave mirror technology
- Square detection area for accurate and easy planning
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Push button or switch connection for manual control
- Pulse function for staircase time switch
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Ready for use by 6 predefined settings, details can be set using the optional service remote control SendoPro
- Parameters can be selected for subsequent changes
- Adjustable sensitivity
- Optional user remote control
- Test operation to check detection area, installation, brightness settings
- Master/slave or master/master parallel switching: Up to ten detectors can be connected with each other to extend the detection area
- Individual covers available upon request

PlanoCentro 300

- Channels A, B light: relay, 230V
- Zero cross switching
- Channel H, presence: relay, floating
- Switch-on delay and switch-off delay
- Room surveillance
- Detection area can be extended by using slave-version PlanoCentro 000
- For ceiling installation (false ceilings), with installation for false ceilings and cover (PlanoCentro 201-E)
- For flush-mounting (concrete ceiling), with metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover (PlanoCentro 201)

PlanoCentro 201

- 3 light channels
- Ideal for classrooms with two lighting groups switched according to daylight each with their own light measurement as well as presence-dependent controlled blackboard lighting
- A, B, C channels light: relay, 230V
- Zero cross switching
- Detection area can be extended by using slave-version PlanoCentro 000
- For ceiling installation (false ceilings), with installation for false ceilings and cover (PlanoCentro 300-E)
- For flush-mounting (concrete ceiling), with metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover (PlanoCentro 300-U)

Product selection

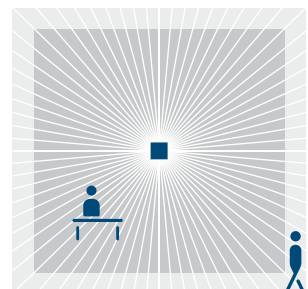
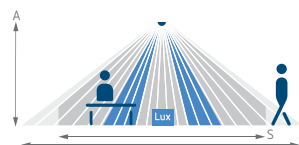
Installation type	Channel	Colour	Type	Article number
Ceiling mounting with mounting frame	3 x Light	Pure white (similar to RAL 9010)	PlanoCentro 300-EWH	2030302
		Black (similar to RAL 9005)	PlanoCentro 300-EBK	2030303
		Silver (similar to RAL 9006)	PlanoCentro 300-ESR	2030304
Ceiling installation (flush-mounting concrete)	3 x Light	Pure white (similar to RAL 9010)	PlanoCentro 300-UWH	2030402
		Black (similar to RAL 9005)	PlanoCentro 300-UBK	2030403
		Silver (similar to RAL 9006)	PlanoCentro 300-USR	2030404
Ceiling mounting with mounting frame	2 x Light 1 x Presence	Pure white (similar to RAL 9010)	PlanoCentro 201-EWH	2030502
		Black (similar to RAL 9005)	PlanoCentro 201-EBK	2030503
		Silver (similar to RAL 9006)	PlanoCentro 201-ESR	2030504
Ceiling installation (flush-mounting concrete)	2 x Light 1 x Presence	Pure white (similar to RAL 9010)	PlanoCentro 201-UWH	2030602
		Black (similar to RAL 9005)	PlanoCentro 201-UBK	2030603
		Silver (similar to RAL 9006)	PlanoCentro 201-USR	2030604
		Additional colours available upon request		

Technical data

	PlanoCentro 300-EWH	PlanoCentro 201
Operating voltage	230 V AC	
Frequency	50 Hz	
Recommended installation height	2–3.5 m	
Power consumption	1 W	
Setting range brightness	ca. 10–2000 lx/on	
Light switch-off delay	10 s–60 min	
Type of contact light	Relay 230 V/10 A	
Incandescent/halogen lamp load	2300 W, (total of all contacts)	
Compact and fluorescent lamps	1150 VA ($\cos \varphi = 0.5$)	
Compact and fluorescent lamps (Number of electronic ballasts)	20 x 54/58 W, 25 x 35/36 W, 10 x 2 x 54/58 W, 15 x 2 x 35/36 W	
Switch-on delay presence	–	0 s–10 min/Room surveillance
Presence switch-off delay	–	10 s–120 min
Type of contact presence	–	Relay potential-free
Switching capacity presence	–	60 W (220 V DC), 62.5 VA (250 V AC), minimal 0.5 mV/10 mA
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 40 (when fitted)	

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0.5 m	20 m² 4.5 m x 4.5 m
2.5 m	64 m² 8 m x 8 m ± 0.5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3.5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m



Accessories



PlanoSets
for PlanoCentro E
↳ Art.No.: 9070736
Details page 249



PlanoBox 1WH
for PlanoCentro U
↳ Art.No.: 9070731
Details page 249



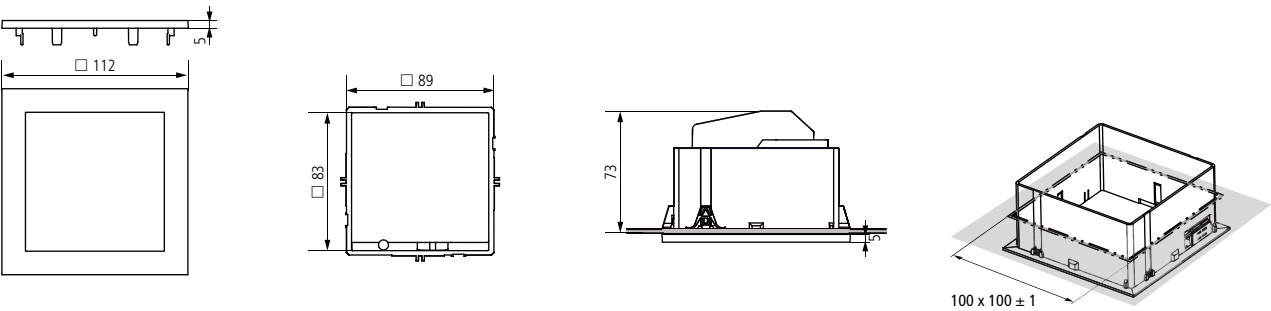
Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
↳ Art.No.: 9070689
Details page 249

theSenda S
Details page 252
SendoPro 868-A
Details page 250

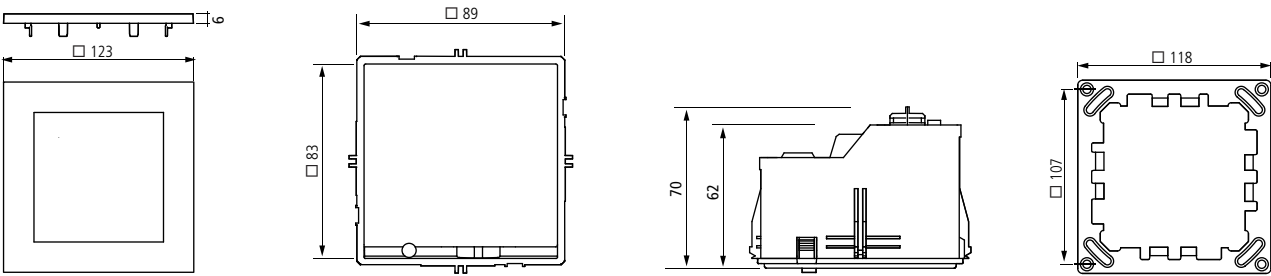
Presence and motion detectors

Presence detectors, 230 V AC

Scale drawings

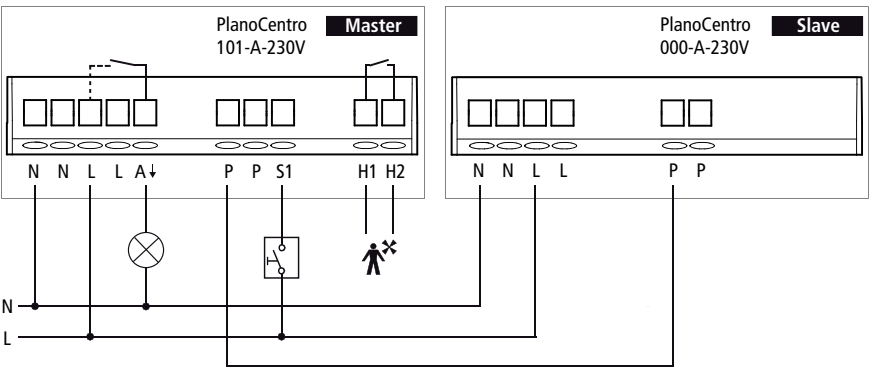


PlanoCentro U

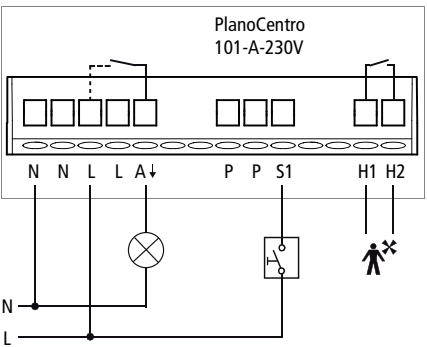


PlanoCentro E

Connection diagrams

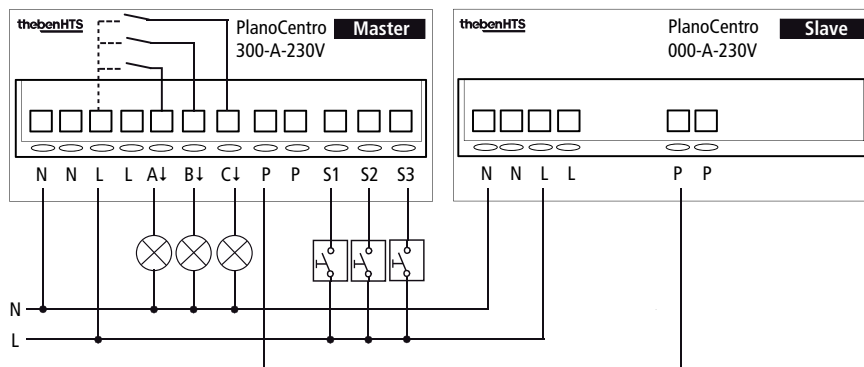


PlanoCentro 101

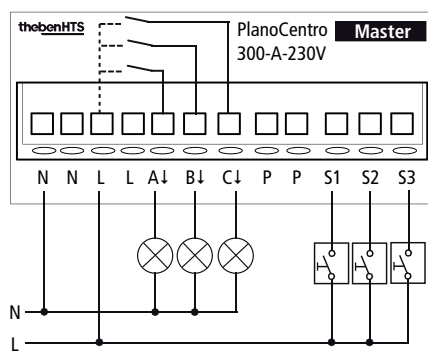


PlanoCentro 101

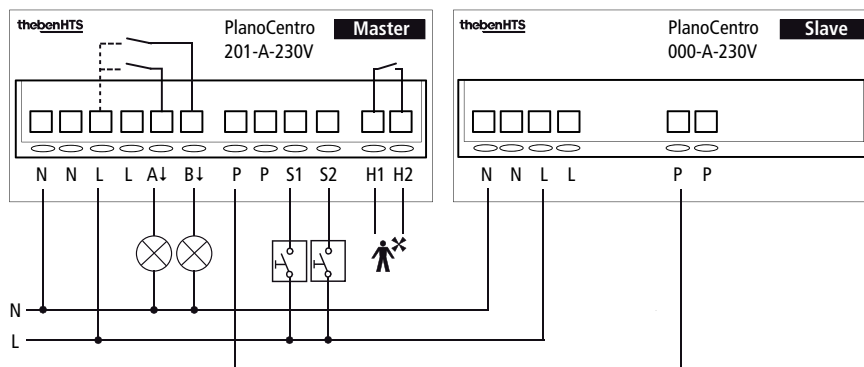
Connection diagrams



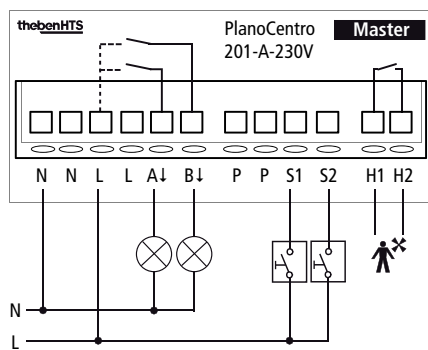
PlanoCentro 300



PlanoCentro 300



PlanoCentro 201



PlanoCentro 201

Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- IP 54 for versatile use
- Light switch output (relay, 230 V)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Pulse function for staircase time switch
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Wall mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

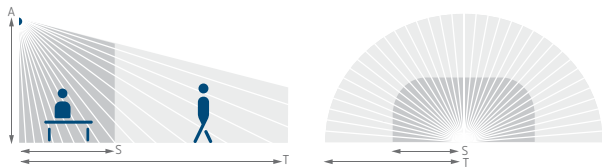
Installation type	Channel	Operating voltage	Colour	Type	Article number
Wall installation	Light	230 V AC	Pure white (similar to RAL 9010)	PresenceLight 180	2000050
			Black (similar to RAL 9005)	PresenceLight 180 BK	2000803
			Silver (similar to RAL 9006)	PresenceLight 180 SR	2000804
			Additional colours available upon request		

Technical data

	PresenceLight 180
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	1.6 – 2.2 m
Power consumption	0.9 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s – 20 min
Type of contact light	Relay 230 V
Resistive load	1400 W
Incandescent/halogen lamp load	1200 W
Compact and flourescent lamps	960 VA (cos ϕ = 0.8), 580 VA (cos ϕ = 0.5)
Compact and flourescent lamps (Number of electronic ballasts)	10 x (1 x 58 W), 5 x (2 x 58 W), 16 x (1 x 36 W), 8 x (2 x 36 W), 16 x (smaller than 36 W)
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	–20 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2.2 m	100 m² 8 m	25 m² 7 m x 3.5 m



Accessories



Surface frame PresenceLight

↳ Art.No.: 9070513

Details page 248



QuickSafe

↳ Art.No.: 9070531

Details page 250



SendoPro 868-A

↳ Art.No.: 9070675

Details page 250

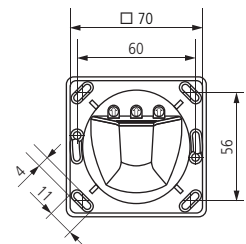
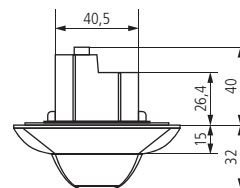
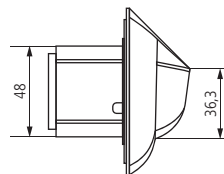
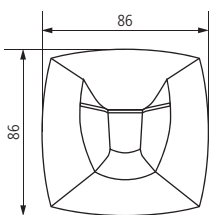


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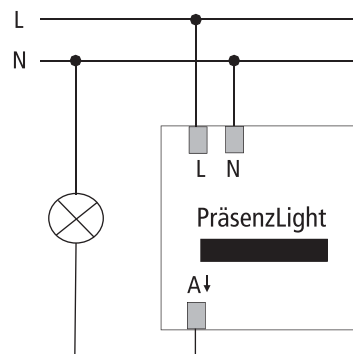
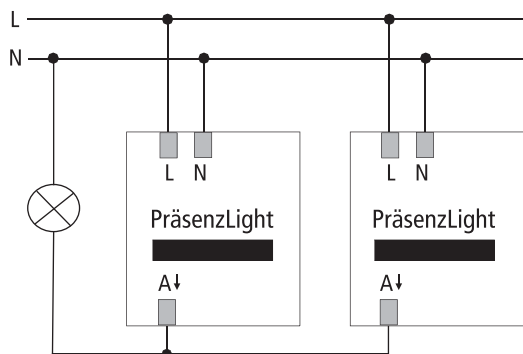
↳ Art.No.: 9070515

Details page 251

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 230 V AC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Light switch output (relay, 230 V)
- Genuine daylight measurement, suitable only for fluorescent lamps (FL/PL/ESL)
- Brightness threshold and self-learning switch-off delay adjustable
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Parameters can be set using the potentiometers
- Ready for use by ex-factory set items
- Wall mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

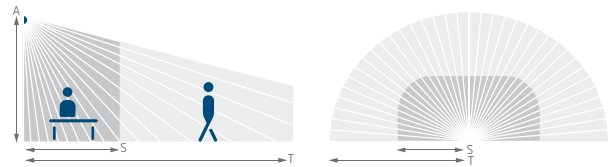
Installation type	Channel	Operating voltage	Colour	Type	Article number
Wall installation	Light Presence	230 V AC	Pure white (similar to RAL 9010)	ECO-IR 180A	2020050
			Black (similar to RAL 9005)	ECO-IR 180A BK	2020809
			Silver (similar to RAL 9006)	ECO-IR 180A SR	2020810
			Additional colours available upon request		

Technical data

	ECO-IR 180A
Operating voltage	230 V AC
Frequency	50 Hz
Recommended installation height	1.6–2.2 m
Power consumption	0.9 W
Setting range brightness	ca. 50–1600 lx/on
Light switch-off delay	2 min–15 min
Type of contact light	Relay 230 V
Compact and fluorescent lamps	max. 1400 VA
Compact and fluorescent lamps (Number of electronic ballasts)	12 x (1 x 58 W), 6 x (2 x 58 W), 18 x (1 x 36 W), 9 x (2 x 36 W), 18 x (smaller than 36 W)
Presence switch-off delay	10–60 min
Type of contact presence	Relay potential-free
Switching capacity presence	100 W (24 V DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2.2 m	100 m ² 8 m	32 m ² 8 m x 4 m



Accessories



Surface frame ECO-IR 180

↳ Art.No.: 9070511

Details page 249

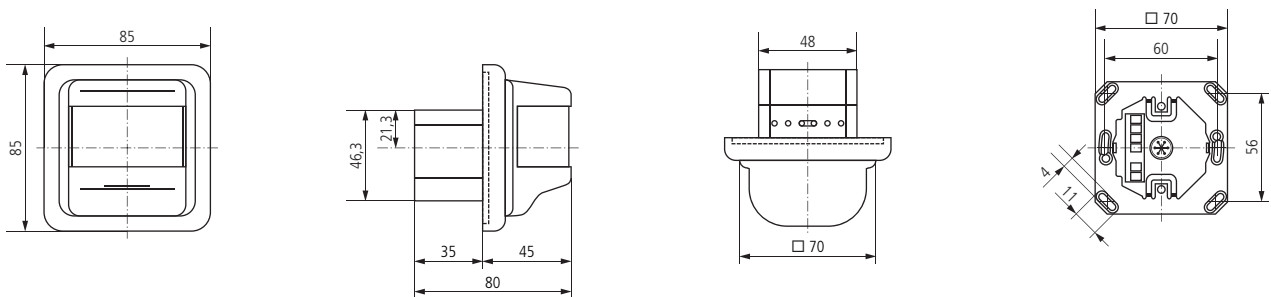


QuickSafe

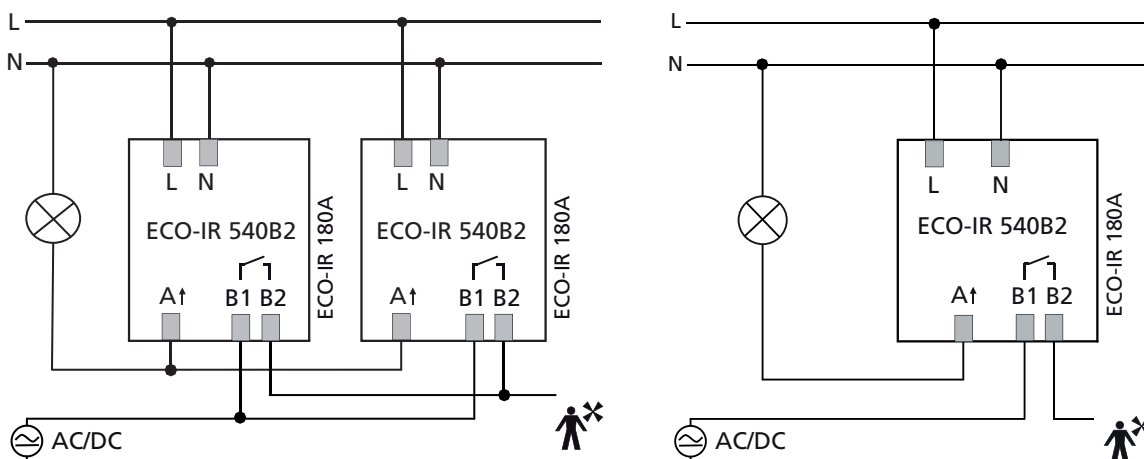
↳ Art.No.: 9070531

Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 24 V AC/DC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- Light switch output (relay, potential-free)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Pulse function for staircase time switch
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

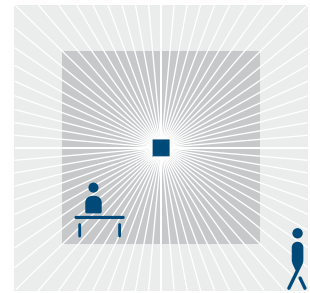
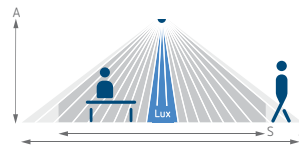
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	24 V AC/DC	Pure white (similar to RAL 9010)	compact office 24V	2014000
			Black (similar to RAL 9005)	compact office 24V BK	2014800
			Silver (similar to RAL 9006)	compact office 24V SR	2014801
			Additional colours available upon request		

Technical data

	compact office 24V
Operating voltage	24 V AC/DC
Recommended installation height	2 – 3 m
Power consumption	0.4 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s – 20 min
Type of contact light	Relay potential-free
Compact and fluorescent lamps	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Switch-on delay presence	0 s – 10 min, room surveillance
Presence switch-off delay	10 s – 120 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4.5 m x 4.5 m ± 0.5 m	9 m ² 3 m x 3 m
2.5 m	36 m ² 6 m x 6 m ± 0.5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4.5 m x 4.5 m
3.5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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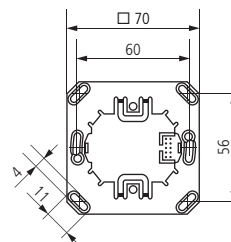
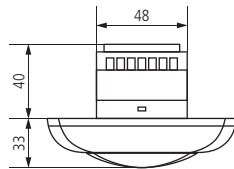
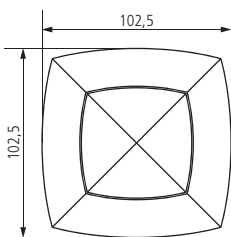
↳ Art.No.: 9070515
Details page 251



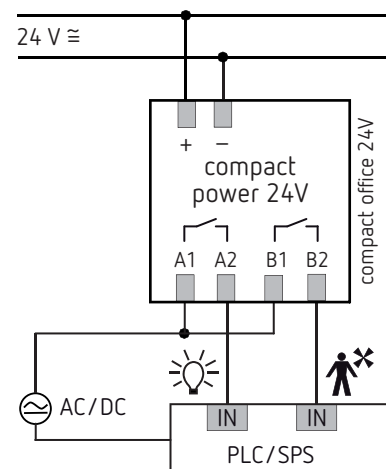
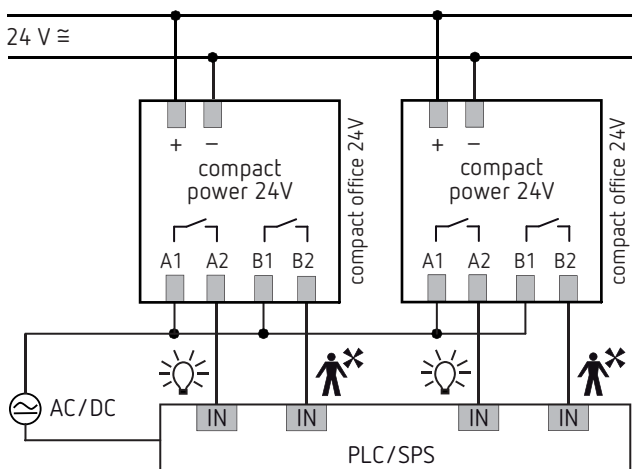
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 24 V AC/DC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness and analogue value output of measured brightness
- Square detection area allows accurate and simple planning
- Light switch output (relay, potential-free)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen / incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Analogue output 0–10 V for brightness
- Linear or logarithmic output of brightness
- Can be used as light sensor for PLC controls
- The analogue output exports the brightness measured by the internal sensor as an analogue signal. The output can be linear or logarithmic to the measured brightness. The output functions independently from the presence detector
- Pulse function for staircase time switch
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

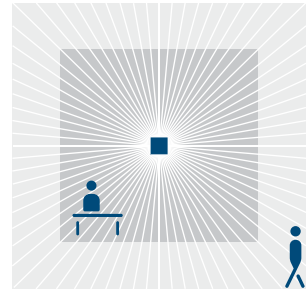
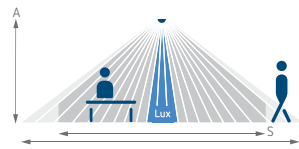
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light 0–10 V	24 V AC/DC	Pure white (similar to RAL 9010)	compact office 24V Lux	2014001
			Black (similar to RAL 9005)	compact office 24V Lux BK	2014803
			Silver (similar to RAL 9006)	compact office 24V Lux SR	2014804
			Additional colours available upon request		

Technical data

	compact office 24V Lux
Operating voltage	24 V AC/DC
Recommended installation height	2–3 m
Power consumption	0.5 W
Setting range brightness	ca. 10–1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s–20 min
Type of contact light	Relay potential-free
Compact and flourescent lamps	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Control output	0–10 V
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4.5 m x 4.5 m ± 0.5 m	9 m ² 3 m x 3 m
2.5 m	36 m ² 6 m x 6 m ± 0.5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4.5 m x 4.5 m
3.5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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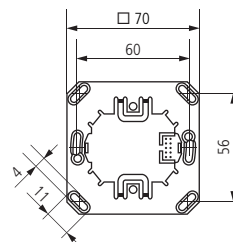
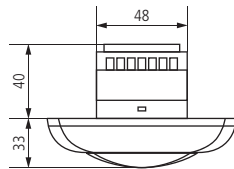
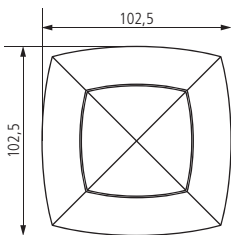
↳ Art.No.: 9070515
Details page 251



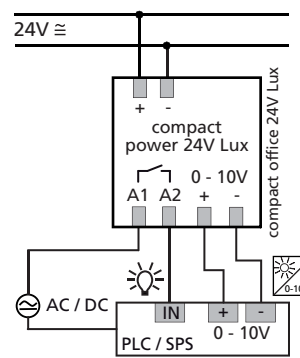
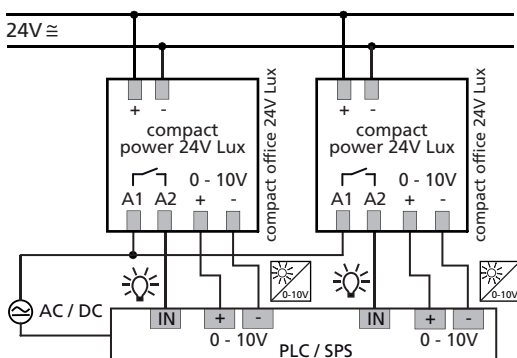
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 24 V AC/DC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Rectangular detection area for corridors allows accurate and simple planning
- Light switch output (relay, potential-free)
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Brightness threshold and self-learning switch-off delay adjustable
- Pulse function for staircase time switch
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Parameters can be set using the potentiometers or via the optional service remote controls
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

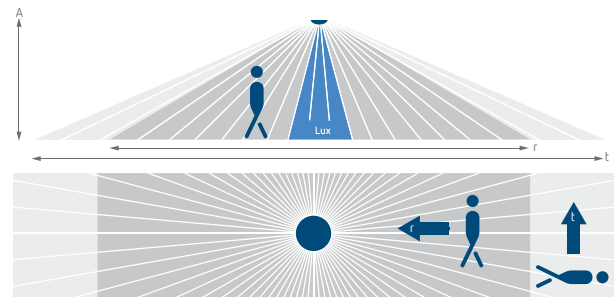
Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	24 V AC/DC	Pure white (similar to RAL 9010)	compact passage 24V	2014090
			Black (similar to RAL 9005)	compact passage 24V BK	2014806
			Silver (similar to RAL 9006)	compact passage 24V SR	2014807
			Additional colours available upon request		

Technical data

	compact passage 24V
Operating voltage	24 V AC/DC
Recommended installation height	2–3.5 m
Power consumption	0.4 W
Setting range brightness	ca. 10 – 1500 lx/on
Light switch-off delay	Pulse (0.5 s), 10 s–20 min
Type of contact light	Relay potential-free
Compact and fluorescent lamps	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Switch-on delay presence	0 s–10 min, room surveillance
Presence switch-off delay	10 s–120 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Rectangular)

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	56 m ² 16 m x 3.5 m ± 1 m	105 m ² 30 m x 3.5 m ± 1 m
2.5 m	72 m ² 18 m x 4 m ± 1 m	120 m ² 30 m x 4 m ± 1 m
3 m	90 m ² 20 m x 4.5 m ± 1 m	135 m ² 30 m x 4.5 m ± 1 m
3.5 m	100 m ² 20 m x 5 m ± 1 m	150 m ² 30 m x 5 m ± 1 m



Accessories



Surface frame compact

↳ Art.No.: 9070514
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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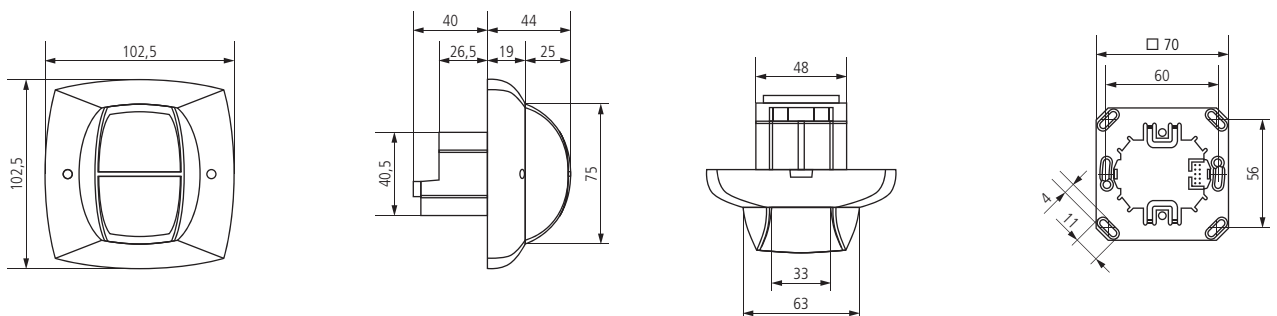
↳ Art.No.: 9070515
Details page 251



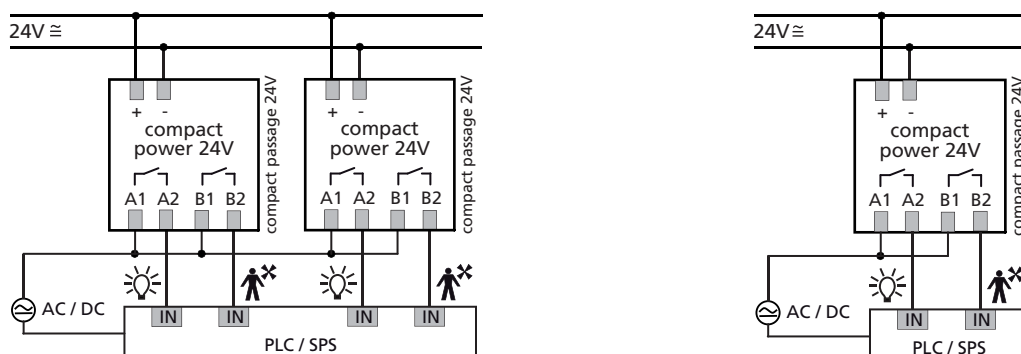
QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 24 V AC/DC



Description

- Presence detector (PIR)
 - Automatic control of lighting depending on presence and brightness
 - Square detection area allows accurate and simple planning
 - Light switch output (relay, potential-free)
 - Genuine daylight measurement, suitable only for fluorescent lamps (FL/PL/ESL)
 - Brightness threshold and self-learning switch-off delay adjustable
- Presence switch output (relay, potential-free) for example for HVAC control
 - HVAC control with adjustable switch-on and switch-off delay
 - Parameters can be set using the potentiometers
 - Ready for use by ex-factory set items
 - Ceiling mounting in flush-mounted box
 - Possibility of surface mounting by using a surface frame

Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light Presence	24 V AC/DC	Pure white (similar to RAL 9010)	ECO-IR 360-24V	2024000
			Black (similar to RAL 9005)	ECO-IR 360-24V BK	2024800
			Silver (similar to RAL 9006)	ECO-IR 360-24V SR	2024801
			Additional colours available upon request		

Technical data

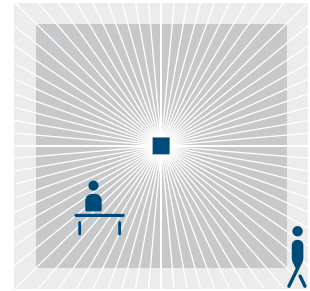
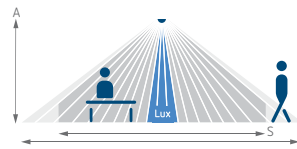
	ECO-IR 360-24V
Operating voltage	24 V AC/DC
Recommended installation height	2 – 3.5 m
Power consumption	0.3 W
Setting range brightness	ca. 50 – 1600 lx/on
Light switch-off delay	2 min – 15 min
Type of contact light	Relay potential-free
Compact and flourescent lamps	50 W (24 V AC/DC), 460 VA (230 V AC), µ, min. 1 V/1 mA
Presence switch-off delay	1 – 60 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (24 V AC/DC), 460 VA (230 V AC), µ, min. 1 V/1 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Presence and motion detectors

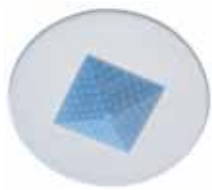
Presence detectors, 24 V AC/DC

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0.5 m	20 m² 4.5 m x 4.5 m
2.5 m	64 m² 8 m x 8 m ± 0.5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 0.5 m	49 m² 7 m x 7 m
3.5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m
4 m	121 m² 11 m x 11 m ± 1 m	–



Accessories



QuickFix round cover

↳ Art.No.: 9070517
Details page 250



QuickFix square cover

↳ Art.No.: 9070516
Details page 250



Surface frame ECO-IR 360

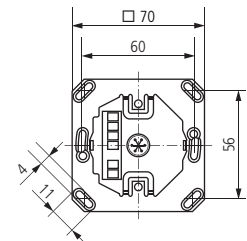
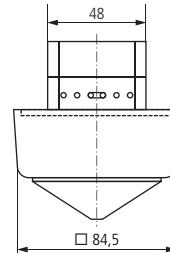
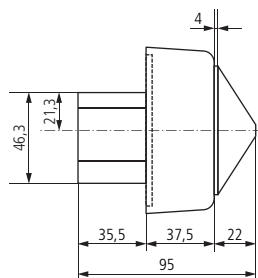
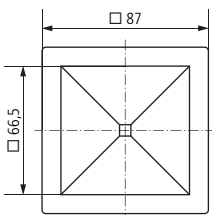
↳ Art.No.: 9070512
Details page 249

QuickFix concrete flush-mounted box
Details page 250

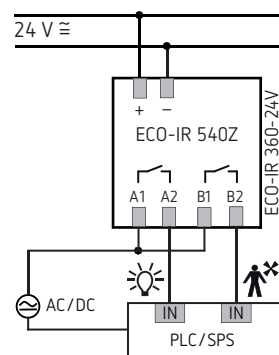
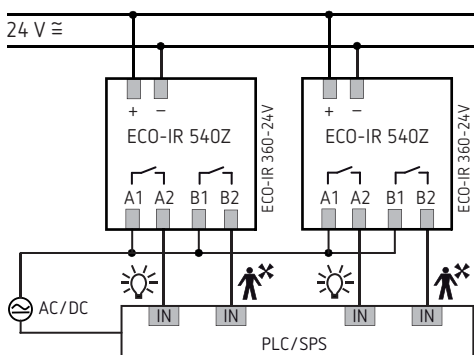
QuickFix flush-mounted housing
Details page 250

QuickSafe
Details page 250

Scale drawings



Connection diagrams



Presence and motion detectors

Presence detectors, 24 V AC/DC



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Light switch output (relay, potential-free)
- Genuine daylight measurement, suitable only for fluorescent lamps (FL/PL/ESL)
- Brightness threshold and self-learning switch-off delay adjustable
- Presence switch output (relay, potential-free) for example for HVAC control
- HVAC control with adjustable switch-on and switch-off delay
- Parameters can be set using the potentiometers
- Ready for use by ex-factory set items
- Wall mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

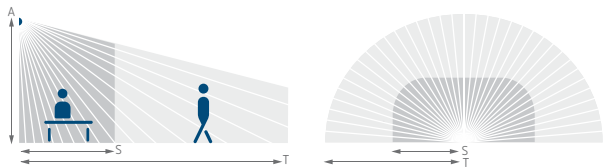
Installation type	Channel	Operating voltage	Colour	Type	Article number
Wall installation	Light Presence	24 V AC/DC	Pure white (similar to RAL 9010)	ECO-IR 180-24V	2024050
			Black (similar to RAL 9005)	ECO-IR 180-24V BK	2024803
			Silver (similar to RAL 9006)	ECO-IR 180-24V SR	2024804
			Additional colours available upon request		

Technical data

	ECO-IR 180-24V
Operating voltage	24 V AC/DC
Recommended installation height	1.6 – 2.2 m
Power consumption	0.3 W
Setting range brightness	ca. 50 – 1600 lx/on
Light switch-off delay	2 min – 15 min
Type of contact light	Relay potential-free
Compact and flourescent lamps	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Presence switch-off delay	10 – 60 min
Type of contact presence	Relay potential-free
Switching capacity presence	50 W (24 V AC/DC), 460 VA (230 V AC), μ , min. 1 V/1 mA
Size of concealed housing	Ø 55 mm (NIS, PMI)
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2.2 m	100 m² 8 m	32 m² 8 m x 4 m



Accessories



Surface frame ECO-IR 180

↳ Art.No.: 9070511

Details page 249

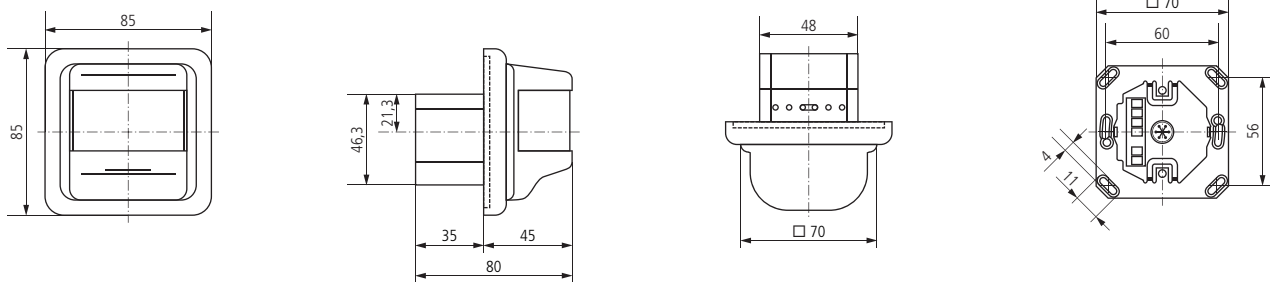


QuickSafe

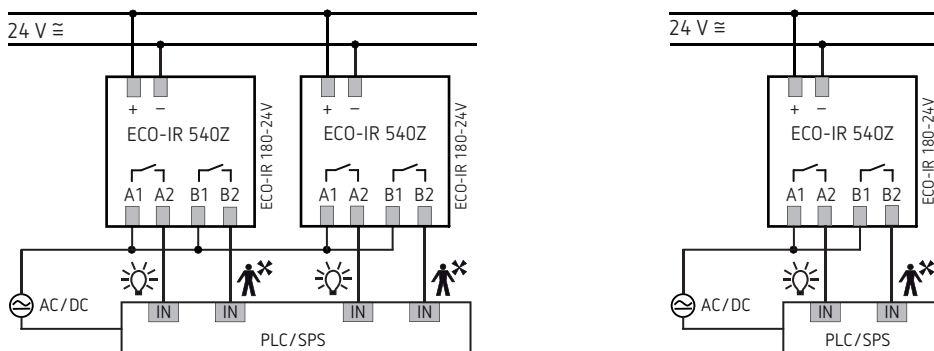
↳ Art.No.: 9070531

Details page 250

Scale drawings



Connection diagrams





Light in the darkness

What is better than a warm welcome home? When, somewhere, a light comes on. Especially, when you can now see the steps before you trip over them. Motion detectors from Theben give a pleasant feeling of security. Incidentally not just when you're coming home yourself. You also ensure that whoever is standing in front of the door isn't left in the dark. As if from a good friend, always there to offer support. We call that reliability.

Presence and motion detectors

Motion detectors / Spotlights

	Installation type	Detection angle	Detection range	Channel	Lamp loads	Light switch-off delay	Remote controlled	Type	Page
Outdoor									
	Wall installation	150°	12 m	Light	2300 W	1 s–20 min	–	theLuxa S180	124
		180°	12 m	Light	2300 W	1 s–20 min	–	theLuxa S180	124
	Wall and ceiling installation	360°	Ø 32 m	Light	2300 W	1 s–20 min	–	theLuxa S360	126
		110°	15 m	Light	2300 W	1 s–20 min	✓	SPHINX 105-110	128
		220°	15 m	Light	2300 W	1 s–20 min	✓	SPHINX 105-220	128
		300°	15m	Light	2300 W	1 s–20 min	✓	SPHINX 105-300	128
Outdoor with spotlight									
	Wall installation	140°/90°	10 m	–	–	5 s–10 min	–	LUXA 102-140 LED 8W	130
								LUXA 102-140 LED 16W	130
		180°	12 m	Light	1000 W	5 s–10 min	–	LUXA 102-180 LED 32W	132
		–	–	–	–	–	–	LUXA 102 FL LED 8W	134
								LUXA 102 FL LED 16W	134
		–	–	–	–	–	–	LUXA 102 FL LED 32W	134
		150°	12 m	Light	–	5 s–12 min	–	LUXA 102-150/150W	136
								LUXA 102-150/500W	136
Indoor									
	Ceiling mounting	360°	Ø 7 m	Light	1000 W	5 s–20 min	–	LUXA 103-360	138
				Light Presence	1000 W	5 s–20 min	–	LUXA 103-360/2	138
	Ceiling installation, Surface mounted	360°	Ø 7 m	Light	1000 W	5 s–20 min	–	LUXA 103-360 AP	140
				Light Presence	1000 W	5 s–20 min	–	LUXA 103-360/2 AP	140
	Flush-mounted wall installation	200°, circular	8 m	Light	1000 W	20 s–30 min	–	LUXA 103-200	142
					400 W	20 s–30 min	–	LUXA 103-200 T	142

Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For outdoor use
- Additional creep under protection
- Sensor head can be turned by $\pm 90^\circ$ horizontally and by 30° downwards
- Adjustable brightness switching value and switch-off delay

- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Teach-in of current brightness value possible
- Pulse function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)

- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Controls are place protected
- Terminal for protective earth conductor

theLuxa S150

- Detection angle 150°

theLuxa S180

- Detection angle 180°

Product selection

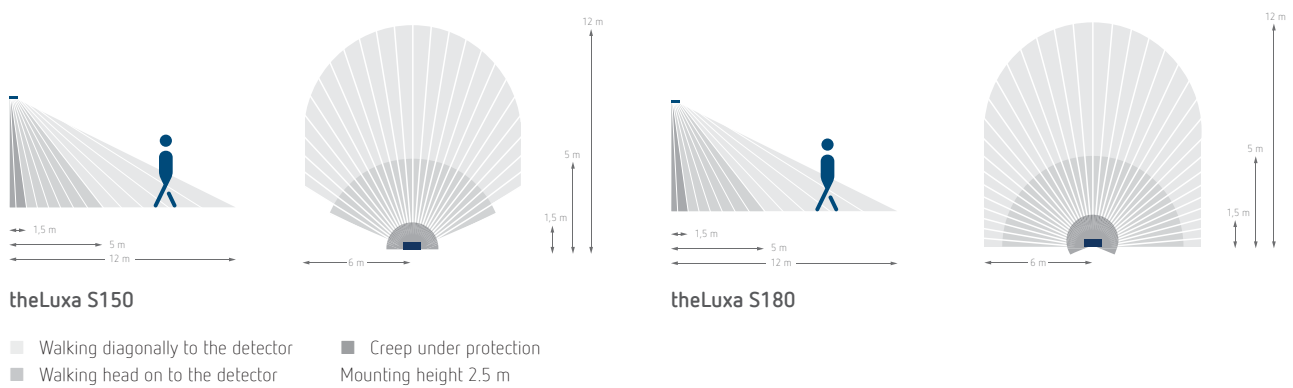
Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	150°	White	theLuxa S150 WH	1010500
			Black	theLuxa S150 BK	1010501
		180°	White	theLuxa S180 WH	1010505
			Black	theLuxa S180 BK	1010506

Technical data

	theLuxa S150	theLuxa S180
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0.9 W	
Setting range brightness	5 – 1000 lx	
Switching capacity light	10 A (at 230 V AC, $\cos \varphi = 1$), 6 A (at 230 V AC, $\cos \varphi = 0.6$), 3 AX (at 230 V AC, $\cos \varphi = 0.3$)	
Detection angle	150°	180°
Light switch-off delay	1 s – 20 min	
Incandescent lamp load	2300 W	
Fluorescent lamps electronic ballast	600 W	
Fluorescent lamp load (conventional) not corrected	400 VA	
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F	
Fluorescent lamp load (conventional) series-corrected	400 VA	
Energy saving lamps	150 W	

	theLuxa S150	theLuxa S180
LED lamp < 2 W	25 W	
LED lamp 2–8 W	90 W	
LED lamp > 8 W	100 W	
Ambient temperature	–25 °C ... +45 °C	
Protection class	II	
Type of protection	IP 55	

Detection range (Semicircular)



Accessories



Corner angle theLuxa S WH
for theLuxa S150/180
↳ Art.No.: 9070902
Details page 251



Spacer theLuxa S WH
for theLuxa S150/180
↳ Art.No.: 9070906
Details page 251

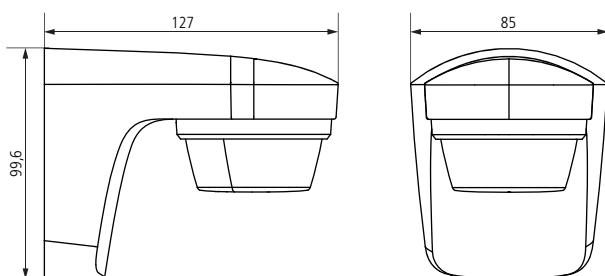


Corner angle theLuxa S BK
for theLuxa S150/180
↳ Art.No.: 9070903
Details page 251

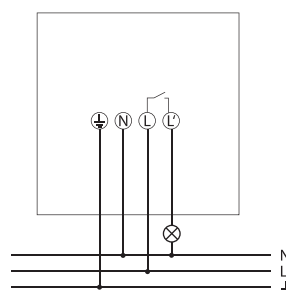


Spacer theLuxa S BK
for theLuxa S150/180
↳ Art.No.: 9070907
Details page 251

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



Description

Common functions

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- For outdoor use
- For installation on walls and ceilings
- 360° detection angle
- Sensor head can be turned by $\pm 90^\circ$ horizontally, by 45° downwards and by 90° upwards
- Adjustable brightness switching value and switch-off delay
- Sensitivity can be reduced to limit detection area
- Detection area can be limited using cover clip
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Zero-cross switching for relay-saving switching and high lamp loads
- Teach-in of current brightness value possible
- Pulsee function
- Test function for checking detection area
- Installation on flush-mounted socket possible (60 mm)
- Single-handed plug-in installation with retained screws
- Instant start-up possible via factory preset
- Controls are place protected
- Corner angle included
- Terminal for protective earth conductor

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall and ceiling installation	Light	360°	White	theLuxa S360 WH	1010510
			Black	theLuxa S360 BK	1010511

Technical data

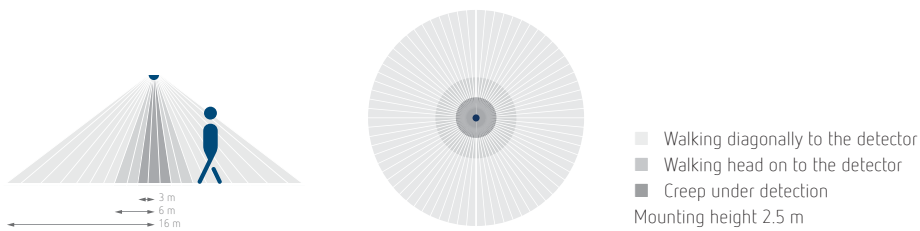
	theLuxa S360
Operating voltage	230 V AC
Frequency	50 Hz
Stand-by consumption	0.5 W
Setting range brightness	5 – 1000 lx
Switching capacity light	10 A (at 230 V AC, $\cos \varphi = 1$), 6 A (at 230 V AC, $\cos \varphi = 0.6$), 3 AX (at 230 V AC, $\cos \varphi = 0.3$)
Detection angle	360°
Light switch-off delay	1 s – 20 min
Incandescent lamp load	2300 W
Fluorescent lamps electronic ballast	600 W
Fluorescent lamp load (conventional) not corrected	400 VA
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F
Fluorescent lamp load (conventional) series-corrected	400 VA
Energy saving lamps	150 W

Presence and motion detectors

Motion detectors, Outdoor

	theLuxa S360
LED lamp < 2 W	25 W
LED lamp 2–8 W	90 W
LED lamp > 8 W	100 W
Ambient temperature	–25 °C ... +45 °C
Protection class	II
Type of protection	IP 55

Detection range (Semicircular)



Accessories



Corner angle theLuxa S WH
for theLuxa S360
↳ Art.No.: 9070902
Details page 251



Spacer theLuxa S WH
for theLuxa S360
↳ Art.No.: 9070906
Details page 251



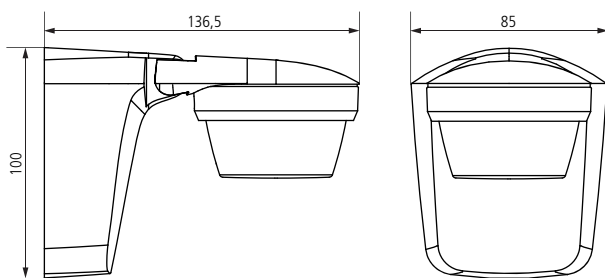
Corner angle theLuxa S BK
for theLuxa S360
↳ Art.No.: 9070903
Details page 251



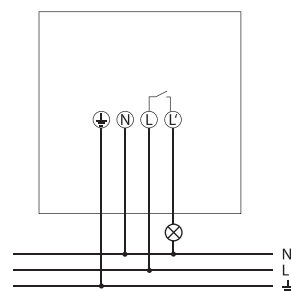
Spacer theLuxa S BK
for theLuxa S360
↳ Art.No.: 9070907
Details page 251

8

Scale drawings



Connection diagrams



Presence and motion detectors

Motion detectors, Outdoor



Description

- Motion detector (PIR)
 - Wall and ceiling installation
 - Automatic lighting control based on presence and brightness
 - Sensor head can be adjusted horizontally by $\pm 90^\circ$, vertically by 90° upwards and 25° downwards
 - Additional creep under protection
 - Detection area can be limited using enclosed segments
 - Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
 - Zero-cross switching for relay-saving switching and high lamp loads
 - Instant start-up possible via factory preset
 - A cover plate protects controls against manipulation
 - Single-handed plug-in installation with captive screws
 - RC 105 Pro, service remote control (optional)
 - RC 105, user remote control (optional)
 - Adjustable brightness switching value and switch-off delay
 - Zero-cross switching for relay-saving switching and high lamp loads
 - Teach-in of current brightness value possible via remote control
 - Pulsee function can be combined with staircase time switches (ELPA)
 - Test function for checking detection area
- SPHINX 105-110**
- 110° detection angle
 - Especially suitable for narrow courtyard entrances, house entrances or paths
 - Internal corner installation with optional corner installation bracket
- SPHINX 105-220**
- 220° detection angle
 - Particularly suitable for sides of properties, entrances and drives
- SPHINX 105-300**
- 300° detection angle
 - Corner installation bracket for internal or external corners included in delivery
 - Especially suitable for external corner installation for simultaneous coverage of two facades via corner

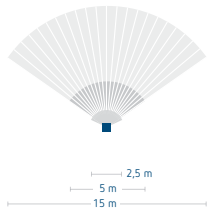
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall and ceiling installation	Light	110°	White	SPHINX 105-110	1050110
		220°	White	SPHINX 105-220	1050220
		300°	White	SPHINX 105-300	1050300

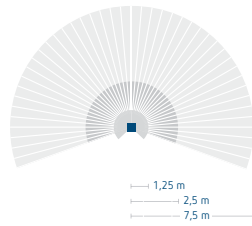
Technical data

	SPHINX 105-110	SPHINX 105-220	SPHINX 105-300
Operating voltage	230 V AC		
Frequency	50–60 Hz		
Stand-by consumption	0.9 W		
Setting range brightness	2–2000 lx		
Switching capacity light	16 A (at 230 V AC, $\cos \varphi = 1$), 10 A (at 230 V AC, $\cos \varphi = 0.6$), 8 AX (at 230 V AC, $\cos \varphi = 0.3$)		
Detection angle	110°	220°	300°
Light switch-off delay	1 s–20 min		
Incandescent lamp load	2300 W		
Fluorescent lamp load (conventional) not corrected	900 VA		
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F		
Fluorescent lamp load (conventional) series-corrected	900 VA		
Fluorescent lamp load (conventional) lead-lag circuit	900 VA		
Energy saving lamps	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W		
Ambient temperature	–25 °C ... +55 °C		
Protection class	II		
Type of protection	IP 55		

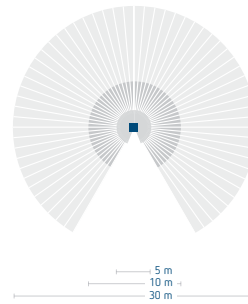
Detection range (Semicircular)



SPHINX 105-110



SPHINX 105-220



SPHINX 105-300

- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under detection
- Mounting height 2.5 m

Accessories



SPHINX RC 105

↳ Art.No.: 9070539
Details page 252



SPHINX RC 105 Pro

↳ Art.No.: 9070537
Details page 252



RC filter

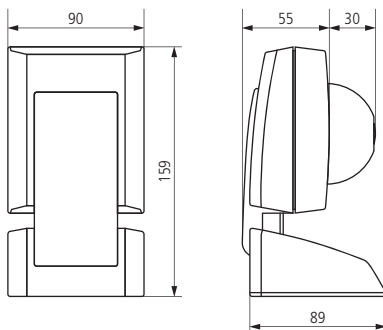
↳ Art.No.: 9070523
Details page 251



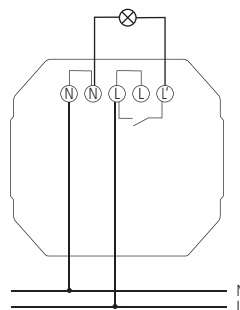
SPHINX corner angle

↳ Art.No.: 9070535
Details page 251

Scale drawings



Connection diagrams



Presence and motion detectors Spotlights with motion detector, Outdoor



LUXA 102-140 LED 8W WH



LUXA 102-140 LED 16W BK

Description

Common functions

- LED spotlight with motion detector
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- 90° detection angle at a detection range of 10 m
- Additional creep under protection with 140° detection angle at a detection range of 2 m

- Sensor head can be turned by ± 90° horizontally
- Spotlight can be swivelled ± 40° horizontally, and adjusted 90° downwards
- Area limit via lens attachment
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Adjustable lux value and switch-off delay
- Settings can be changed without tools

- Optional purely twilight-dependent control
- Not suitable for dimming applications

LUXA 102-140 LED 8W

- 1 LED spot with 8 W (equivalent to 100 W Halogen spotlight)

LUXA 102-140 LED 16W

- 2 LED spots with 8 W each (equivalent to 2 x 100 W Halogen spotlight)

Product selection

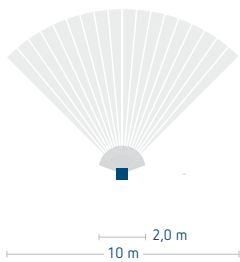
Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	140° / 90°	White	LUXA 102-140 LED 8W WH	1020971
			Black	LUXA 102-140 LED 8W BK	1020972
			White	LUXA 102-140 LED 16W WH	1020973
			Black	LUXA 102-140 LED 16W BK	1020974

Presence and motion detectors Spotlights with motion detector, Outdoor

Technical data

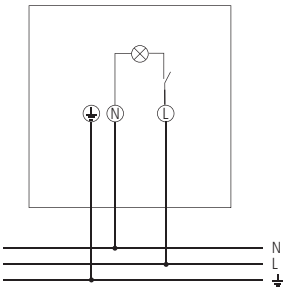
	LUXA 102-140 LED 8W	LUXA 102-140 LED 16W
Operating voltage	100–240 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0.3 W	
LED output (lighting current)	8 W (430 lm)	2 x 8 W (860 lm)
Colour temperature	6000 K, daylight white	
Detection angle	140°/90°	
Setting range brightness	5–200 lx or just presence dependent	
Light switch-off delay	5 s-10 min	
Ambient temperature	–20 °C ... +40 °C	
Protection class	II	
Type of protection	IP 44	

Detection range (Semicircular)

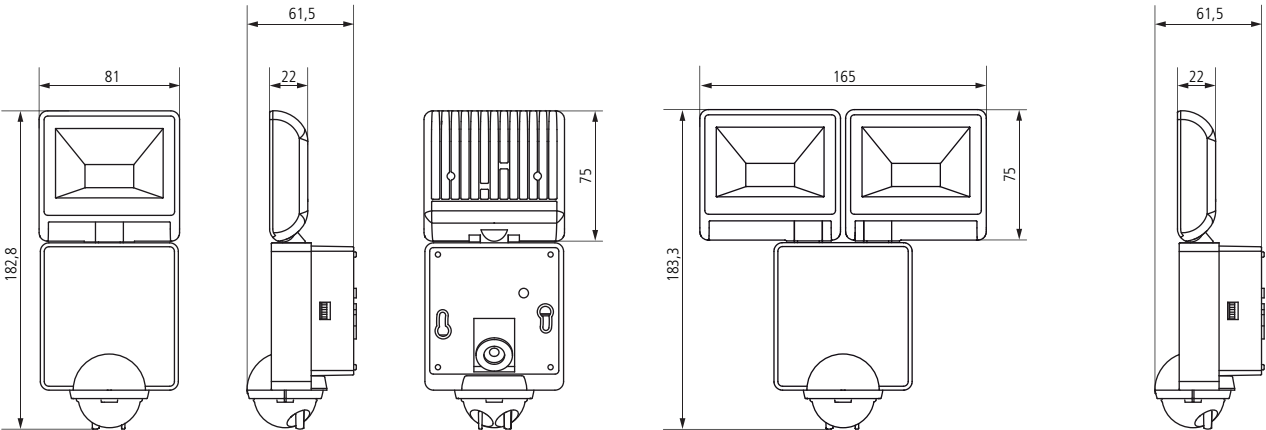


- Walking diagonally to the detector
 - Walking head on to the detector
- Mounting height 2.5 m

Connection diagrams



Scale drawings



Presence and motion detectors Spotlights with motion detector, Outdoor



Description

Common functions

- LED spotlight with motion detector
- 1 LED spot with 32 W (equivalent to 230 W Halogen spotlight)
- Suitable for outdoor use
- Automatic lighting control based on presence and brightness
- Additional light switch output (relay 230 V AC)

- 180° detection angle at a detection range of 12 m
- Additional creep under protection with 220° detection angle at a detection range of 1 m
- Sensor head can be turned by ± 90° horizontally
- Spotlight can be swivelled ± 90° horizontally, and adjusted 55° downwards
- Detection area can be limited using cover clip
- Single-handed plug-in installation

- Instant start-up possible via factory preset
- Adjustable lux value and switch-off delay
- Settings can be changed without tools
- Optional purely twilight-dependent control
- Master/master switching
- Additional spacer included. For flexible installation (cable entry below, side, top and more space for cables) and an increased angle of rotation for spotlight
- Not suitable for dimming application

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	180°	White	LUXA 102-180 LED 32W WH	1020975
			Black	LUXA 102-180 LED 32W BK	1020976

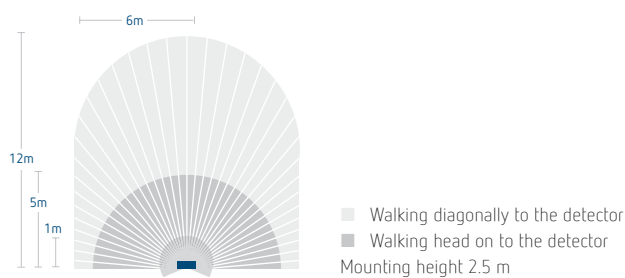
Presence and motion detectors

Spotlights with motion detector, Outdoor

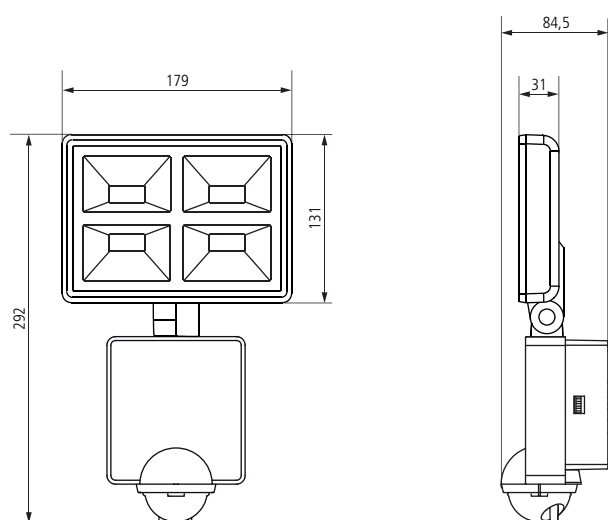
Technical data

	LUXA 102-180 LED 32W
Operating voltage	220–240 V AC
Frequency	50–60 Hz
Stand-by consumption	0.5 W
LED output (lighting current)	32 W (2000 lm)
Colour temperature	6000 K, daylight white
Detection angle	180°
Setting range brightness	5–200 lx or just presence dependent
Light switch-off delay	5 s–10 min
Switching output	Not potential-free (230 V)
Switching capacity light	8 AX (at 230 V AC, $\cos \varphi = 1$), 2.6 A (at 230 V AC, $\cos \varphi = 0.6$)
Incandescent/halogen lamp load	1000 W
Ambient temperature	–25 °C ... +45 °C
Protection class	II
Type of protection	IP 55

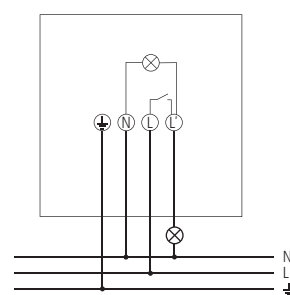
Detection range (Semicircular)



Scale drawings



Connection diagrams



Presence and motion detectors Spotlights, Outdoor

8



Description

Common functions

- LED spotlight
- Suitable for outdoor use
- Spotlight can be swivelled $\pm 40^\circ$ horizontally, and adjusted 90° downwards
- Single-handed plug-in installation
- Instant start-up possible via factory preset
- Not suitable for dimming application

LUXA 102 FL LED 8W

- 1 LED spot with 8 W (equivalent to 100 W Halogen spotlight)

LUXA 102 FL LED 16W

- 2 LED spots with 8 W each (equivalent to 2 x 100 W Halogen spotlight)

LUXA 102 FL LED 32W

- 1 LED spot with 32 W (equivalent to 230 W Halogen spotlight)
- Spotlight can be swivelled $\pm 90^\circ$ horizontally, and adjusted 55° downwards
- Additional spacer included. For flexible installation (cable entry below, side, top and more space for cables) and an increased angle of rotation for spotlight

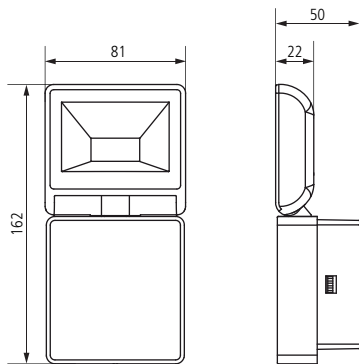
Product selection

Installation type	Channel	LED output	Colour	Type	Article number
Wall installation	Light	8 W	White	LUXA 102 FL LED 8W WH	1020771
			Black	LUXA 102 FL LED 8W BK	1020772
		16 W	White	LUXA 102 FL LED 16W WH	1020773
			Black	LUXA 102 FL LED 16W BK	1020774
		32 W	White	LUXA 102 FL LED 32W WH	1020775
			Black	LUXA 102 FL LED 32W BK	1020776

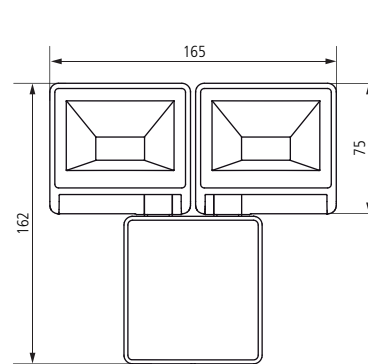
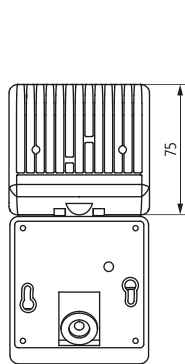
Technical data

	LUXA 102 FL LED 8W	LUXA 102 FL LED 16W	LUXA 102 FL LED 32W
Operating voltage	100 – 240 V AC		220 – 240 V AC
Frequency	50 – 60 Hz		
LED output (lighting current)	8 W (430 lm)	2 x 8 W (860 lm)	32 W (2000 lm)
Colour temperature	6000 K, daylight white		
Ambient temperature	–20 °C ... +40 °C		–25 °C ... +45 °C
Protection class	II		
Type of protection	IP 44		IP 55

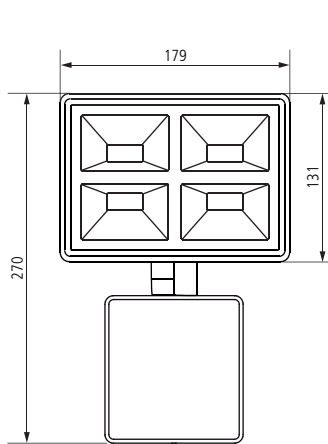
Scale drawings



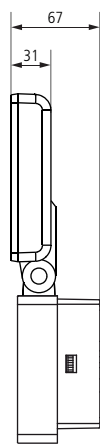
LUXA 102 FL LED 8 W



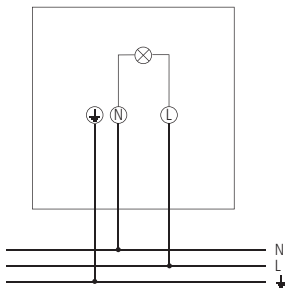
LUXA 102 FL LED 16 W



LUXA 102 FL LED 32 W



Connection diagrams



Presence and motion detectors

Spotlights with motion detector, Outdoor



LUXA 102-150/150W white



LUXA 102-150/500W black

Description

Common functions

- Motion detector (PIR)
- For outdoor use
- Integrated halogen spotlight for extensive lighting
- Energy saving ecoHalogen light bulb with energy efficient class C (R7s socket) included
- 150° detection angle
- Automatic lighting control based on presence and brightness
- Spotlight can be swivelled $\pm 45^\circ$ horizontally, and adjusted 60° upwards and 30° downwards using screw fixings
- Additional creep under protection
- Sensor head can be turned by $\pm 90^\circ$ horizontally and by 40° downwards
- Instant start-up possible via factory preset
- Single-handed plug-in installation with retained screws
- Controls are placed protected
- Additional light switch output (relay 230 V AC)
- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Spotlight with tough aluminium die-cast housing
- Adjustable brightness switching value and switch-off delay
- Sensitivity can be reduced to limit detection area

LUXA 102-150/150W

- 120 W ecoHalogen spotlight (comparable with regular 150 W spotlight)

LUXA 102-150/500W

- 400 W ecoHalogen spotlight (comparable with regular 500 W spotlight)

Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Wall installation	Light	150°	White	LUXA 102-150/150W white	1020961
			Black	LUXA 102-150/150W black	1020962
			White	LUXA 102-150/500W white	1020963
			Black	LUXA 102-150/500W black	1020964

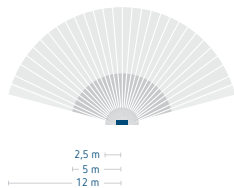
Technical data

	LUXA 102-150/150W	LUXA 102-150/500W
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0.9 W	
Setting range brightness	5–1000 lx Infinitely adjustable	
Switching capacity light	8 A (at 230 V AC, $\cos \varphi = 1$), 6 A (at 230 V AC, $\cos \varphi = 0.6$), 3 AX (at 230 V AC, $\cos \varphi = 0.3$)	
Detection angle	150°	
Switching output	Not potential-free (230 V)	

Presence and motion detectors Spotlights with motion detector, Outdoor

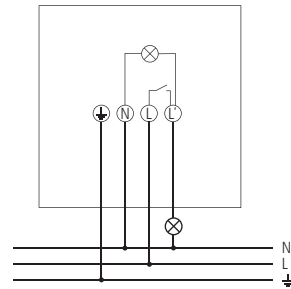
	LUXA 102-150/150W	LUXA 102-150/500W
Light switch-off delay	5 s – 12 min	
Incandescent/halogen lamp load	1000 W	500 W
Ambient temperature	–15 °C ... +45 °C	
Protection class	I according to EN 60 669-2-1	
Type of protection	IP 54	

Detection range (Semicircular)

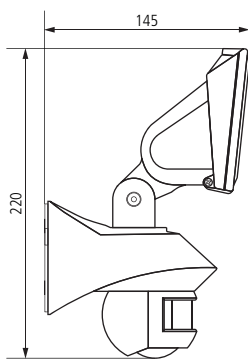


- Walking diagonally to the detector
 - Walking head on to the detector
- Mounting height 2.5 m

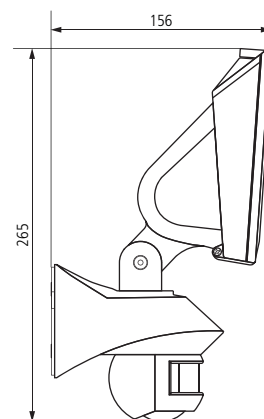
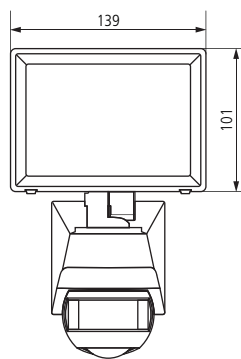
Connection diagrams



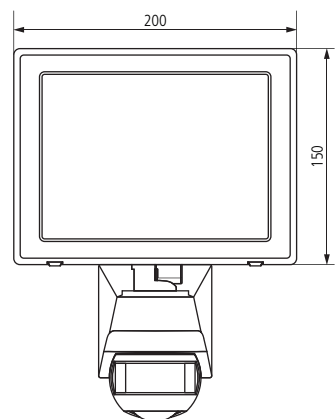
Scale drawings



LUXA 102-150/150W



LUXA 102-150/500W



Presence and motion detectors

Motion detectors, Indoor



Description

- Motion detector (PIR)
 - Automatic lighting control based on presence and brightness
 - Ceiling installation for suspended ceilings
 - Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
 - Zero-cross switching for relay-saving switching and high lamp loads
 - Sensor head can be adjusted downwards by 45° in 15° stages thus allowing detection area to be changed to avoid switching the device on unnecessarily
 - Ceiling cut-out of 65–68 mm diameter
 - Easy installation via two clamping brackets
 - System consists of power box and sensor with plugged connection cable
 - Sensor can easily be removed during painting work and replaced afterwards
 - Large clamping area for quick installation
 - Single-handed plug-in installation with captive screws
 - Instant start-up possible via factory preset
 - No unintentional adjustment due to covered up controls
 - Adjustable brightness switching value and switch-off delay
 - Sensitivity can be reduced to limit detection area
 - Pulse function
 - Test function
- LUXA 103-360**
- 1 channel
- LUXA 103-360/2**
- 2 channels
 - 2. Relay for HVAC control with adjustable switch-off delay, presence-dependent, potential-free

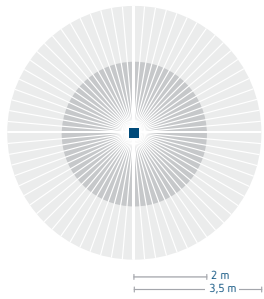
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Ceiling mounting	Light	360°	White	LUXA 103-360	1030010
	Light Presence	360°	White	LUXA 103-360/2	1030011

Technical data

	LUXA 103-360	LUXA 103-360/2
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Stand-by consumption	0.9 W	1.5 W
Setting range brightness	10–2000 lx, infinitely adjustable	
Switching capacity light	10 A (at 230 V AC, $\cos \phi = 1$), 3 AX (at 230 V AC, $\cos \phi = 0.3$)	
Switching capacity presence	–	5 A ($\cos \phi = 1$) 250 V AC/24 V DC
Detection angle	360°	
Recommended installation height	2–3 m	
Light switch-off delay	5 s–20 min	5 s–20 min/Pulse
Presence switch-off delay	–	10 s/15 min/30 min/60 min
Incandescent lamp load	1000 W	
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F	
Ambient temperature	0 °C ... +45 °C	
Protection class	II	
Type of protection	Sensor IP 40, power module IP 20	

Detection range (Round)



- Walking diagonally to the detector
 - Walking head on to the detector
- Mounting height 2.5 m

Accessories

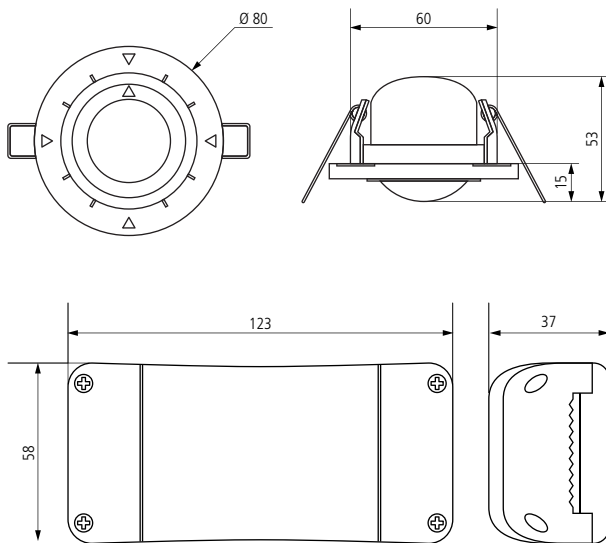


RC filter

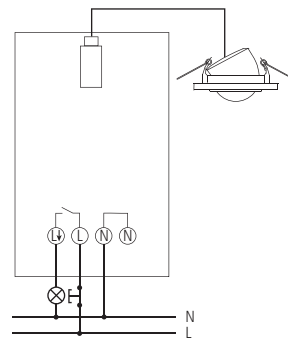
↳ Art.No.: 9070523

Details page 251

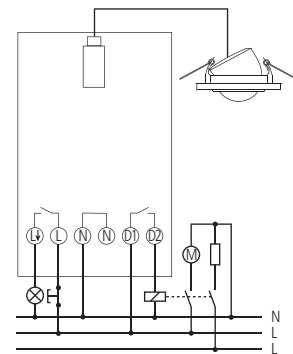
Scale drawings



Connection diagrams



LUXA 103-360



LUXA 103-360/2

Presence and motion detectors

Motion detectors, Indoor



Description

- Motion detector (PIR)
 - Automatic lighting control based on presence and brightness
 - Ceiling installation
 - Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
 - Zero-cross switching for relay-saving switching and high lamp loads
 - Single-handed plug-in installation with captive screws
 - Instant start-up possible via factory preset
 - No unintentional adjustment due to covered up controls
 - Adjustable brightness switching value and switch-off delay
 - Sensitivity can be reduced to limit detection area
 - Pulse function
 - Test function
- LUXA 103-360 AP**
- 1 channel
- LUXA 103-360/2 AP**
- 2 channels
 - 2. Relay for HVAC control, presence dependent, potential-free
 - HVAC control with programmable switch-off delay

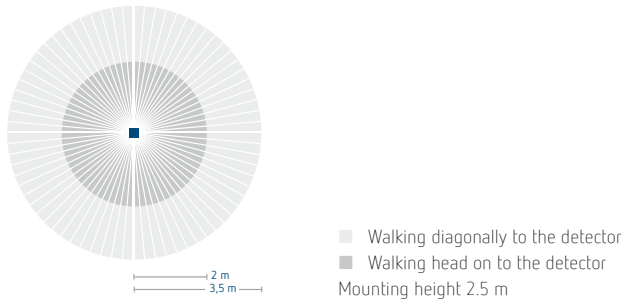
Product selection

Installation type	Channel	Detection angle	Colour	Type	Article number
Ceiling installation, Surface mounted	Light	360°	White	LUXA 103-360 AP	1030020
	Light Presence	360°	White	LUXA 103-360/2 AP	1030021

Technical data

	LUXA 103-360 AP	LUXA 103-360/2 AP
Operating voltage	230 V AC	
Frequency	50 – 60 Hz	
Stand-by consumption	1 W	
Setting range brightness	10 – 2000 lx, infinitely adjustable	
Switching capacity light	10 A (at 230 V AC, cos φ = 1), 3 AX (at 230 V AC, cos φ = 0.3)	
Switching capacity presence	–	5 A (cos φ = 1) 250 V AC / 24 V DC
Detection angle	360°	
Recommended installation height	2 – 3 m	
Light switch-off delay	5 s – 20 min	5 s – 20 min/Pulse
Presence switch-off delay	–	10 s – 60 min
Incandescent lamp load	1000 W	
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 µF	
Ambient temperature	0 °C ... +45 °C	
Protection class	II	
Type of protection	IP 40	

Detection range (Round)



Accessories

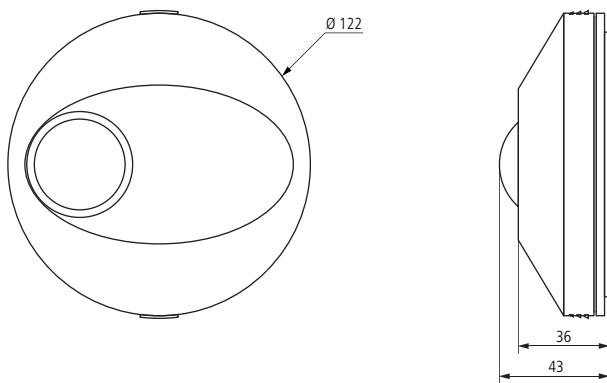


RC filter

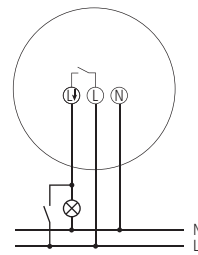
↳ Art.No.: 9070523

Details page 251

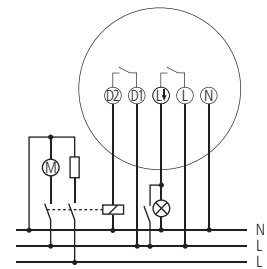
Scale drawings



Connection diagrams



LUXA 103-360 AP



LUXA 103-360/2 AP

Presence and motion detectors

Motion detectors, Indoor



Description

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- Wall installation
- Compatible with branded switches, replaces conventional light switches
- Detection area can be limited using enclosed segments
- Manual AUTO/ON/OFF switching by simple adjustment of cover flap
- Teach-in of current brightness value
- Instant start-up possible via factory preset
- No unintentional adjustment due to covered up controls
- Adjustable brightness switching value and switch-off delay
- Sensitivity can be reduced to limit detection area
- Pulse function
- Test function

LUXA 103-200

- Mixed light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Expansion of detection area through integrated master/slave or master/master function when using up to 10 devices
- With acoustic advance shut-off warning 15 seconds before light switches off

LUXA 103-200 T

- 2 wire connection, ideal for retrofitting
- Light switch output (triac, 230 V AC)
- Mixed light measurement suitable for incandescent and halogen lamps (no electronic ballast)
- Advance shut-off warning through dimming 15 seconds before light switches off

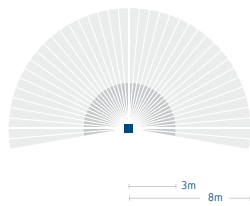
Product selection

PG	Channel	Detection angle	Type	Article number
Flush-mounted wall installation	Light	200°, circular	LUXA 103-200	1030030
			LUXA 103-200 T	1030031

Technical data

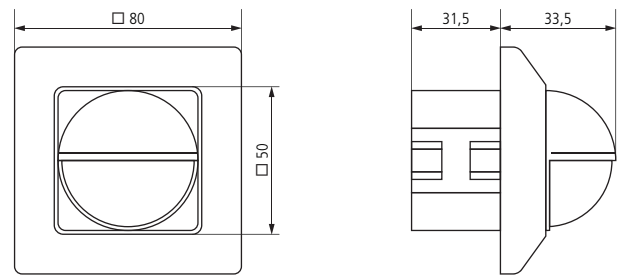
	LUXA 103-200	LUXA 103-200 T
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1 W	0.7 W
Setting range brightness	10 – 1000 lx, infinitely adjustable	
Switching capacity light	10 A (at 230 V AC, cos φ = 1), 3 AX (at 230 V AC, cos φ = 0.3)	2 A (at 230 V AC, cos φ = 1)
Detection angle	200°, circular	
Recommended installation height	1.2 – 2 m	
Light switch-off delay	20 s – 30 min	
Incandescent lamp load	1000 W	400 W
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 µF	–
Ambient temperature	0 °C ... +45 °C	
Protection class	II	
Type of protection	IP 40	

Detection range (Semicircular)



■ Walking diagonally to the detector
■ Walking head on to the detector
Mounting height 1.2 – 2 m

Scale drawings



Accessories



Surface frame LUXA 103-200

↳ Art.No.: 9070504

Details page 251

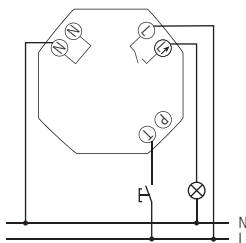


RC filter

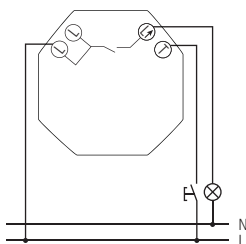
↳ Art.No.: 9070523

Details page 251

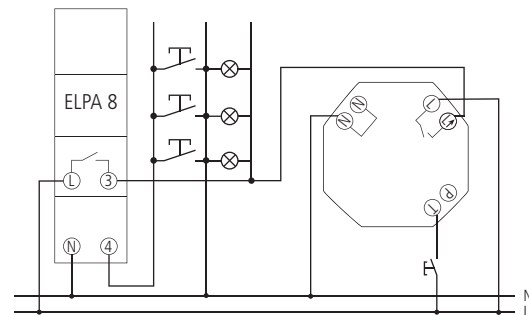
Connection diagrams



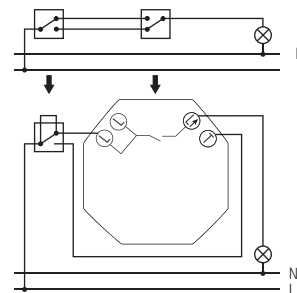
LUXA 103-200



LUXA 103-200 T



LUXA 103-200



LUXA 103-200 T

Space and time

There are daily processes that always follow a fixed schedule. It's good when everything is just so, Theben takes care of that, for example with its programmable clock thermostats, that create exactly the conditions expected - and that one is entitled to expect. This type of precision characterises Theben generally. It is apparent not just in our products. Above all, it characterises our thoughts and actions. As there is scarcely anything more important for us than precision.



Program	Type of connection	Operating voltage	Switching capacity at 250 V AC	Type of contact	Type	Page
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Digital battery version

	Weekly program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 811 top2	146
						RAMSES 831 top2	146
		Radio controlled	2 AA batteries	16 (2) A	NO contact	RAMSES 813 top2 HF Set A	150
						RAMSES 813 top2 HF Set S	150
				6 (1) A	Changeover contact	RAMSES 813 top2 HF Set 1	150
						RAMSES 833 top2 HF Set 1	152
						RAMSES 833 top2 HF Set 2	152

Digital 230 V

	Weekly program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 812 top2	148
						RAMSES 832 top2	148
	Weekly program	Screw terminals max. 4 mm²	230 V AC	10 (2) A	Changeover contact	RAMSES 366/1 top	158
						RAMSES 366/2 top	158

OpenTherm

	Weekly program	2-way conductor (BUS) room controller	230 V AC	2 x 2 (1) A, 1 x 1 (1) A	NO contact	RAMSES 816 top2 OT	154
				5 x 5 (1) A, 2 x 1 (1) A			
					NO contact	RAMSES 856 top2 OT	156

Analogue battery version

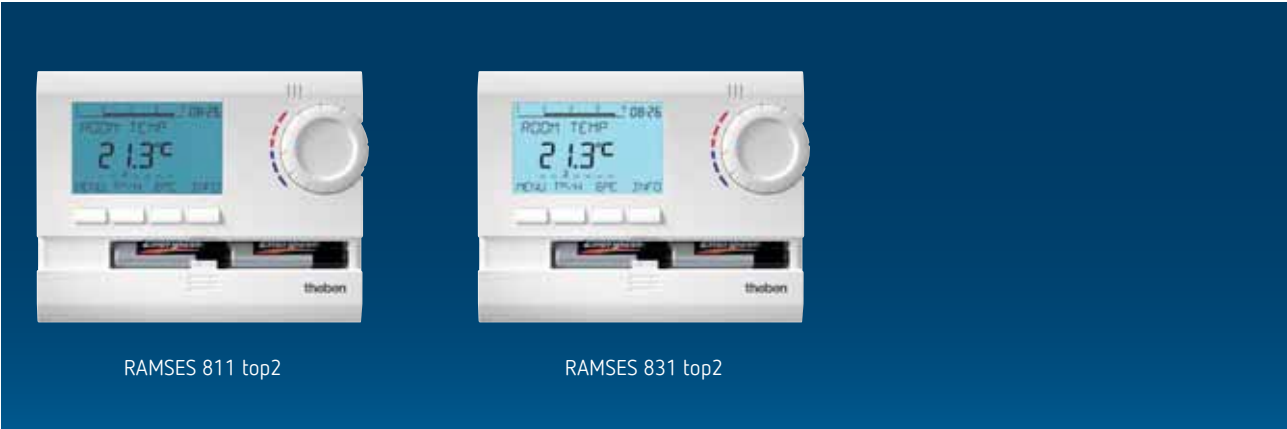
	Daily program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 784 S	160
	Daily/weekly program	2/3-way conductors	2 AA batteries	6 (1) A	Changeover contact	RAMSES 784	162
		Radio controlled	2 AA batteries	6 (1) A	Changeover contact	RAMSES 784 HF Set 1	162

Analogue 230 V

	Daily program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 722 S	160
	Daily/weekly program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 722	162
						RAMSES 782	162
	Daily program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 721	162
	Daily/weekly program	3-/4-conductors	230 V AC	6 (1) A	Changeover contact	RAMSES 725	162

Climate control

Clock thermostats, Digital battery version



Description

- RAMSES 811 top2**

 - Digital clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
 - Battery version
 - Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
 - Temperature is set quickly via rotary switch
 - INFO key for viewing important settings
 - Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature

- Party/ECO program
 - Fully automatic summer/winter-time correction
 - Holiday program with reduction phase or date-controlled heating phase for holiday homes
 - Different control types can be individually set
 - Optimum start option thanks to operating point and switching differential setting option
 - 24 programmable time phases per program also enable reduction phases during the day
 - Plug-in base for wall or flush-mounted socket installation

- Optional feature to warn when boiler maintenance required

RAMSES 831 top2

As RAMSES 811 top2, but:

 - Illuminated display through keystroke
 - External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches
 - Optimisation function for automatic correction of heating start up

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2/3-way conductors	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 811 top2	8119132
					RAMSES 831 top2	8319132

Technical data

	RAMSES 811 top2	RAMSES 831 top2
Operating voltage	2 AA batteries	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	
Power reserve	Max. 10 mins without losing time	
Battery life	approx. 1 year, depending on switching frequency	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438
Details page 255



Actuator ALPHA 4 24 V

↳ Art.No.: 9070439
Details page 255



Temperature sensor

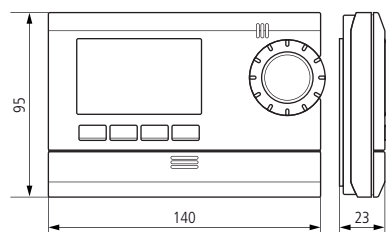
for RAMSES 831 top2
↳ Art.No.: 9070321
Details page 254



Room temperature sensor

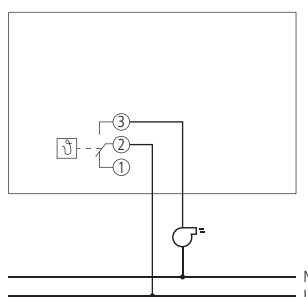
RAMSES IP 65
for RAMSES 831 top2
↳ Art.No.: 9070459
Details page 254

Scale drawings

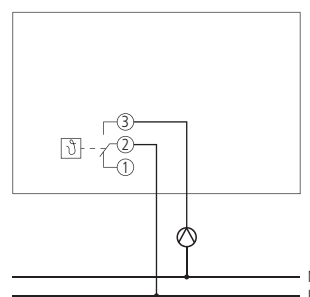


RAMSES 811 top2, RAMSES 831 top2

Connection diagrams



RAMSES 811 top2



RAMSES 811 top2

Climate control

Clock thermostats, Digital 230 V



RAMSES 812 top2



RAMSES 832 top2

Description

RAMSES 812 top2

- Digital clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Mains version
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- Temperature is set quickly via rotary switch
- INFO key for viewing important settings

- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party/ECO program
- Fully automatic summer/winter-time correction
- Different control types can be individually set
- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day

- Plug-in base for wall or flush-mounted socket installation
- Optional feature to warn when boiler maintenance required

RAMSES 832 top2

As RAMSES 812 top2, but:

- Illuminated display through keystroke
- External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches
- Optimisation function for automatic correction of heating start up

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
3-/4-conductors	Weekly program	6 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 812 top2	8120132
					RAMSES 832 top2	8320132

Technical data

	RAMSES 812 top2	RAMSES 832 top2
Operating voltage	230 V AC	
Frequency	50 Hz	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, cos ϕ = 1), 1 A (at 250 V AC, cos ϕ = 0.6)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free, not for SELV	
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)	

	RAMSES 812 top2	RAMSES 832 top2
Power reserve	5 hours	
Stand-by consumption	0,4 W	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 4 230 V
↳ Art.No.: 9070438
Details page 255



Actuator ALPHA 4 24 V
↳ Art.No.: 9070439
Details page 255

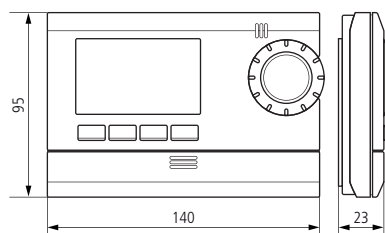


Temperature sensor
for RAMSES 832 top2
↳ Art.No.: 9070321
Details page 254



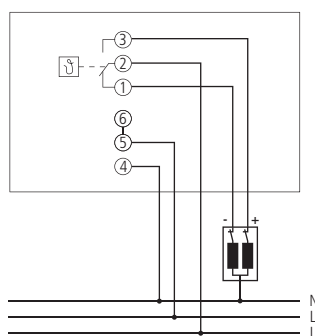
Room temperature sensor
RAMSES IP 65
for RAMSES 832 top2
↳ Art.No.: 9070459
Details page 254

Scale drawings

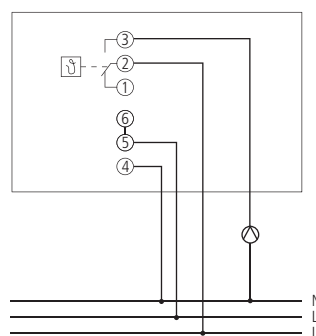


RAMSES 812 top2, RAMSES 832 top2

Connection diagrams

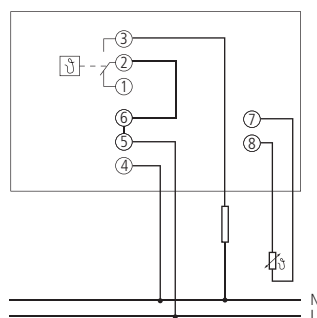


RAMSES 812 top2

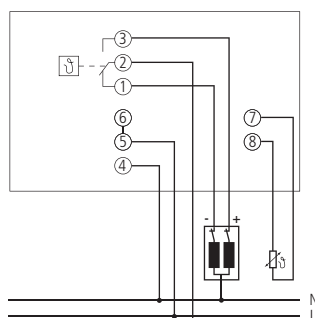


RAMSES 812 top2

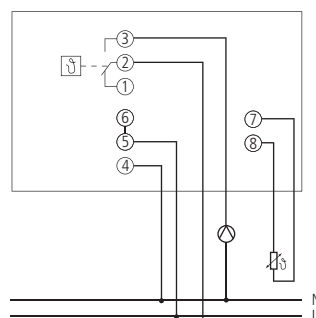
Connection diagrams



RAMSES 832 top2



RAMSES 832 top2



RAMSES 832 top2

Climate control

Clock thermostats, Digital battery version



Description

Common functions

- Radio-controlled system for room temperature control
- The system consists of one digital clock thermostat and one receiver
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- Required temperature set via the rotary dial
- INFO key for viewing important settings
- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party/ECO program

- Automatic summer/winter time adjustment
- Different control types can be individually set
- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day
- 2 comfort and 2 reduced temperatures can be allocated to each phase
- Including base for free choice of position
- An optionally available plug-in base is required for wall installation
- Holiday program with reduced temperature or date-controlled heating phase
- Optional pump protection function

- Optional feature to warn when boiler maintenance required

RAMSES 813 top2 HF Set A

- Consisting of a RAMSES 813 top2 HF and a REC 11 receiver with an NO contact 16 (2) A/250 V AC for wall installation

RAMSES 813 top2 HF Set S

- Consisting of a RAMSES 813 top2 HF and a REC 21 receiver as earthed intermediate connector with an NO contact 16 (2) A/230 V AC

RAMSES 813 top2 HF Set 1

- Consisting of a RAMSES 813 top2 HF and a REC 1 receiver (DIN rail) with a two-way switch 6 (2) A/250 V AC

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
Radio controlled	Weekly program	16 (2) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 813 top2 HF Set A	8139503
	Weekly program	16 (2) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 813 top2 HF Set S	8139505
	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 813 top2 HF Set 1	8139501

Technical data

	RAMSES 813 top2 HF Set A	RAMSES 813 top2 HF Set S	RAMSES 813 top2 HF Set 1
Operating voltage	2 AA batteries		
Type of contact	NO contact		Changeover contact
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 2 A (at 250 V AC, $\cos \varphi = 0.6$)		6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)
Setting range temperature	+6 °C ... +30 °C		
Time basis	Quartz		
Program	Weekly program, Daily program, Holiday program, 3 basic programs		
Number of memory locations	42, max. 24 per program		
Control types	Pulse width modulation, Hysteresis controller		
Control period	5–30 min		
Control capture range	0,2–5 K		
Switching output	Potential-free, not for SELV	Not potential-free	Potential-free
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)		
Power reserve	Max. 10 mins without losing time		
Stand-by consumption	1,9 W	1,1 W	1,7 W
Battery life	approx. 1 year, depending on switching frequency		
Width	see scale drawing		5 modules
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		

Accessories

Socket RAMSES

Details page 253

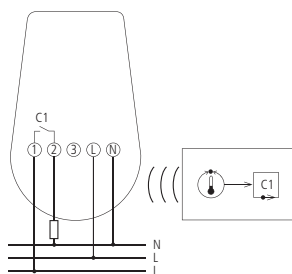
Actuator ALPHA 4 230 V

Details page 255

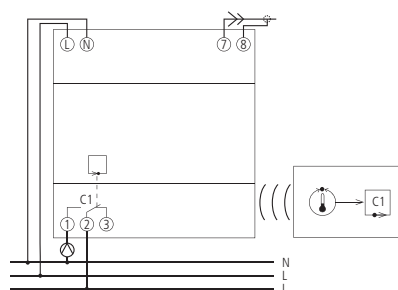
Actuator ALPHA 4 24 V

Details page 255

Connection diagrams

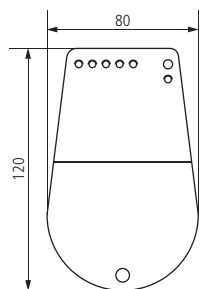


RAMSES 813 top2 HF Set A

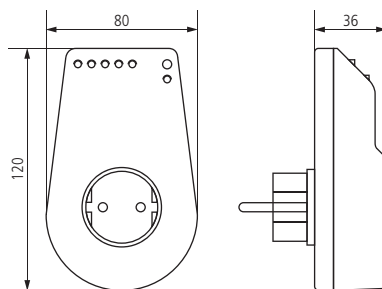
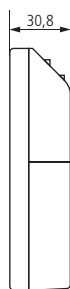


RAMSES 813 top2 HF Set 1

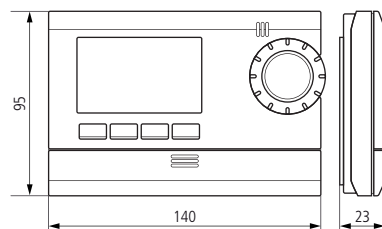
Scale drawings



RAMSES 813 top2 HF Set A



RAMSES 813 top2 HF Set S



RAMSES 813 top2 HF Set 1

Climate control

Clock thermostats, Digital battery version



Description

Common functions

- Radio-controlled system for room temperature control
- Suitable for energy-saving room temperature control in houses, apartments, heating zones, offices, showrooms, factories, medical practices, holiday homes
- The system consists of one or two digital clock thermostat and one receiver
- Required temperature set via the rotary dial
- INFO key for viewing important settings
- Quick start-up via 3 basic programs with individually changeable comfort and reduced temperature
- Party/ECO program
- Automatic summer/winter time adjustment

- Different control types can be individually set
- Optimum start option thanks to operating point and switching differential setting option
- 24 programmable time phases per program also enable reduction phases during the day
- Illuminated display through keystroke
- External input for connection of presence detectors, temperature sensors, floor sensors, window contacts or telephone remote switches (can only be used in connection with optional plug-in base for wall mounting)
- Optimisation function for automatic correction of heating start up
- Holiday program with reduction phase or date-controlled heating phase for holiday homes

- Optional feature to warn when boiler maintenance required
- Optional pump protection function
- Including base for free choice of position
- An optionally available plug-in base is required for wall installation

RAMSES 833 top2 HF Set 1

- Consisting of a RAMSES 833 top2 HF and a REC 1 receiver (DIN rail) with a two-way switch 6 (2) A/250 V DC

RAMSES 833 top2 HF Set 2

- Consisting of two RAMSES 833 top2 HF and a 2 channel REC 2 receiver (DIN rail) with a two-way switch 6 (2) A/250 V DC per channel

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
Radio controlled	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 833 top2 HF Set 1	8339501
	Weekly program	6 (1) A	+6 °C ... +30 °C	2 AA batteries	RAMSES 833 top2 HF Set 2	8339502

Technical data

	RAMSES 833 top2 HF Set 1	RAMSES 833 top2 HF Set 2
Operating voltage	2 AA batteries	
Type of contact	Changeover contact	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program, 3 basic programs	
Number of memory locations	42, max. 24 per program	
Control types	Pulse width modulation, Hysteresis controller	
Control period	5–30 min	
Control capture range	0,2–5 K	
Switching output	Potential-free, not for SELV	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	
Power reserve	Max. 10 mins without losing time	
Stand-by consumption	1,7 W	2,2 W
Battery life	approx. 1 year, depending on switching frequency	
Width	5 modules	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 4 230 V
↳ Art.No.: 9070438
Details page 255



Temperature sensor
↳ Art.No.: 9070321
Details page 254



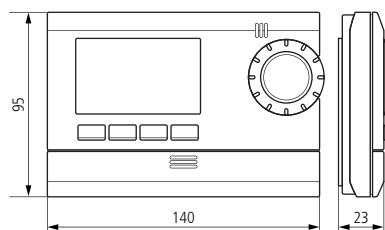
**Room temperature sensor
RAMSES IP 65**
for RAMSES 833 top2 HF Set 1
↳ Art.No.: 9070459
Details page 254

Socket RAMSES
Details page 253

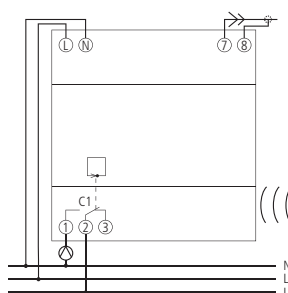
Actuator ALPHA 4 24 V
Details page 255

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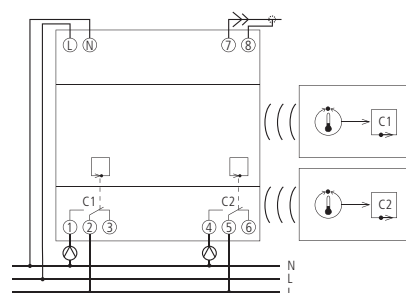
Scale drawings



Connection diagrams



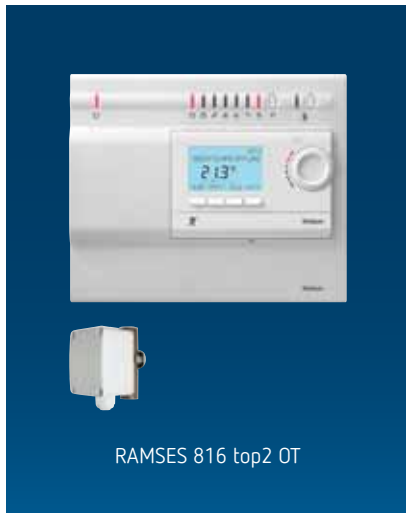
RAMSES 833 top2 HF Set 1



RAMSES 833 top2 HF Set 2

Climate control

Clock thermostats, OpenTherm



RAMSES 816 top2 OT

Description

- Digital mixer control
- 3 different weekly programs
- 3 comfort and 2 reduced temperatures can be allocated to each zone
- INFO button for the most important data
- Party/ECO program
- Chimney sweeping function with push button OT box
- Minimum boiler temperature can be set
- 2-stage burner control option
- Holiday program with reduced temperature or date-controlled heating phase can be programmed e. g. for holiday homes
- USB interface for modem
- Automatic summer/winter time adjustment
- Control of feed temperature via motorcontrolled mixer
- 3-point controller with feed sensor
- Pump protection function
- Inputs: feed sensor heating circuit (contained in set), external sensor
- Elapsed-time counter for recording relay switching times e.g. burner operating time
- Adjustable reminder function for heater maintenance

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2-way conductor (BUS) room controller	Weekly program	2 x 2 (1), 1 x 1 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 816 top2 OT	8169132

Technical data

RAMSES 816 top2 OT			
Operating voltage	230 V AC	Program	Weekly program
Frequency	50 Hz	Number of memory locations	42
Type of contact	NO contact	Switching hysteresis	2 – 20 K
Switching capacity	2 x 2 (1) A Relay, 1 x 1 (1) A Relay	Mixer runtime	2 – 10 min
Setting range temperature	+6 °C ... +30 °C	Power reserve	4 hours
Flow temperature limit	+40 °C ... +90 °C	Stand-by consumption	1,1 W
Type of connection	2-way conductor (BUS) room controller	Type of protection	IP 20
		Protection class	II according to EN 60 730-1

Accessories



Outside temperature sensor RAMSES

↳ Art.No.: 9070463

Details page 254



Room temperature sensor RAMSES IP 65

↳ Art.No.: 9070459

Details page 254

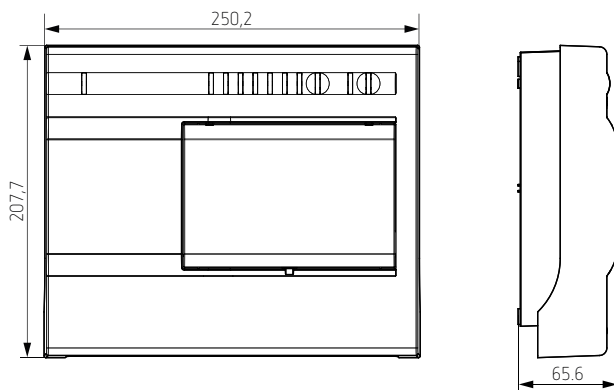


Plunge sensor RAMSES

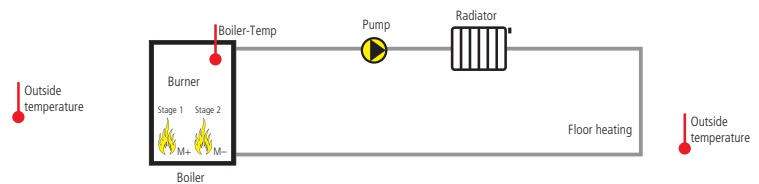
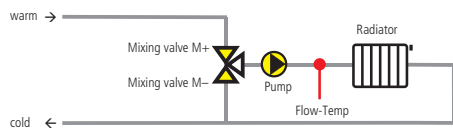
↳ Art.No.: 9070379

Details page 255

Scale drawings

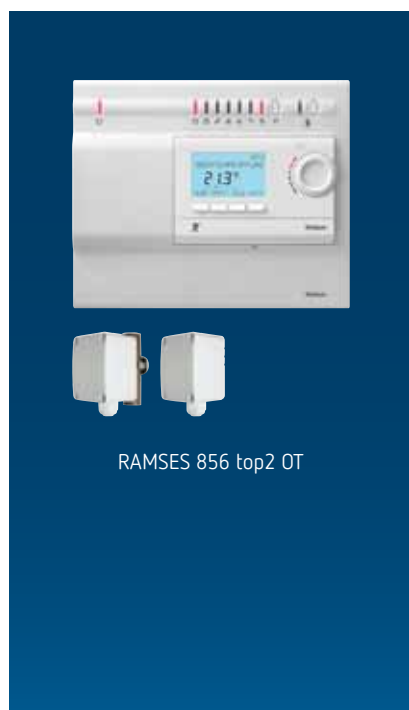


Connection diagrams



Climate control

Clock thermostats, OpenTherm



Description

- Digital heating control for time-dependent monitoring and control of room temperature
- Open Therm heating controller for 2 or 3 point control, weather-dependent, service water and circulation control
- Automatic sensor recognition for weather- or room-dependent control; can be switched manually at any time
- 3 different weekly programs
- 3 comfort and 2 reduced temperatures can be allocated to each phase
- INFO button for the most important data
- Additional switching program for domestic hot water utilisation times
- Adjustable service water storage temperature, programmable legionella protection
- Party/ECO program
- Chimney sweeping function with push button OT box
- Minimum boiler temperature can be set
- 2 heating curves can be set for 2 heating circuits
- 2-stage burner control option
- Holiday program with reduced temperature or date-controlled heating phase can be programmed e. g. for holiday homes
- USB interface for modem
- Automatic summer / winter time adjustment
- Boiler/feed temperature (control circuit 1) controlled by switching the burner
- Control of feed temperature (control circuit 2) via pump control or motor-controlled mixer
- 3-point controller with feed sensor
- Time- and temperature-dependent control of hot water circulation pump.
- Pump protection function
- Inputs: External sensor (contained in set), feed sensor heating circuit (contained in set), contact or immersion sensor for domestic hot water, contact sensor for circulation
- Elapsed-time counter for recording relay switching times e.g. burner operating time
- Adjustable reminder function for heater maintenance

Product selection

Type of connection	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
2-way conductor (BUS) room controller	Weekly program	5 x 5 (1), 2 x 1 (1) A	+6 °C ... +30 °C	230 V AC	RAMSES 856 top2 OT	8569132

Technical data

RAMSES 856 top2 OT			
Operating voltage	230 V AC	Number of memory locations	42, max. 24 per program
Frequency	50 Hz	Switching hysteresis	2 – 20 K
Type of contact	NO contact	Mixer runtime	2 – 10 min
Switching capacity	5 x 5 (1) A Relay, 2 x 1 (1) A Relay	Power reserve	4 hours
Setting range temperature	+6 °C ... +30 °C	Stand-by consumption	1,1 W
Flow temperature limit	+40 °C ... +90 °C	Type of protection	IP 20
Type of connection	2-way conductor (BUS) room controller	Protection class	II according to EN 60 730-1
Program	Weekly program		

Accessories



Flow temp. sensor RAMSES
↳ Art.No.: 9070371
Details page 254



Room temperature sensor RAMSES IP 65
↳ Art.No.: 9070459
Details page 254

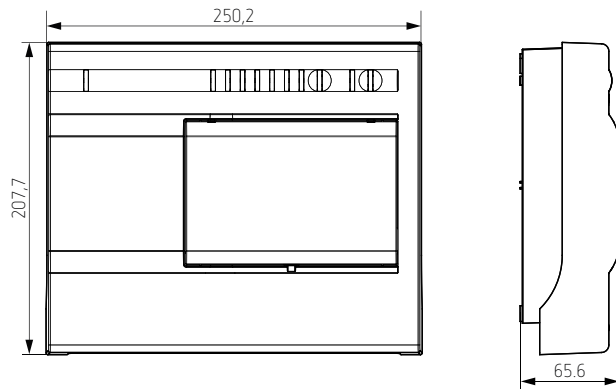


OT-Box Standard
↳ Art.No.: 9070712
Details page 254

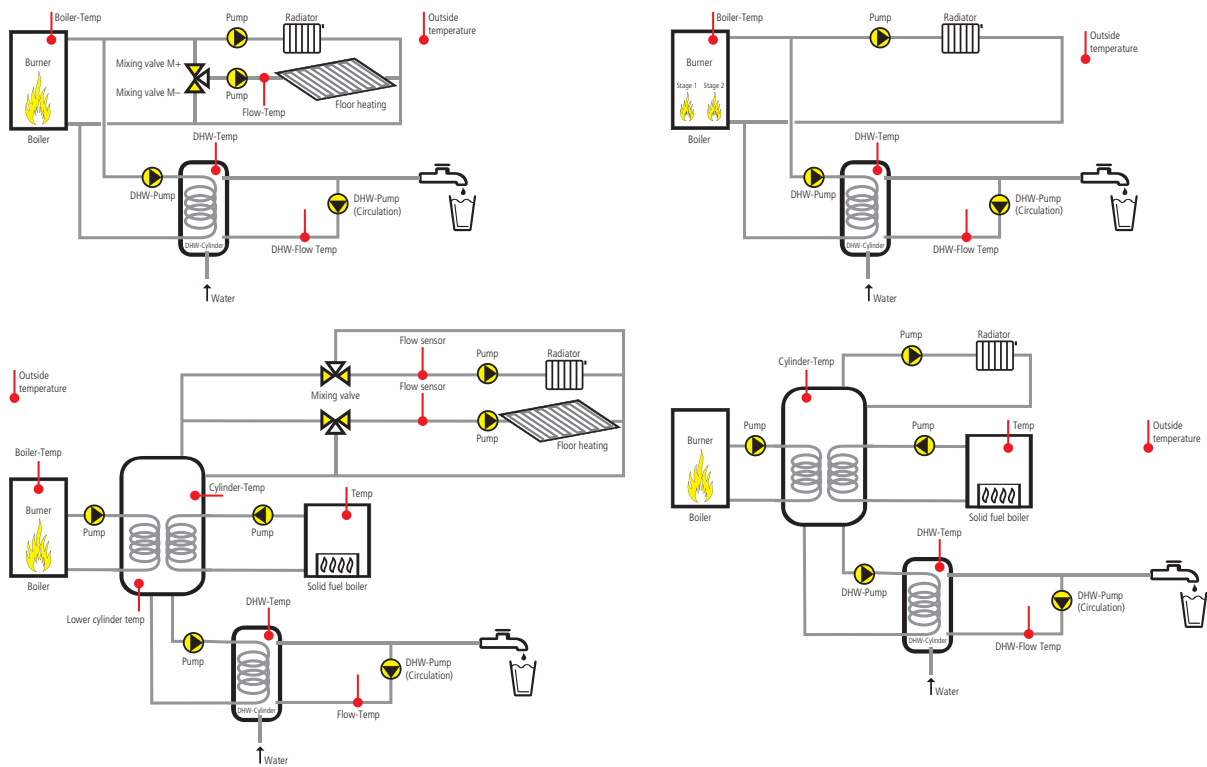


Plunge sensor RAMSES
↳ Art.No.: 9070379
Details page 255

Scale drawings



Connection diagrams



Climate control
Clock thermostats, Digital 230 V



Description

Common functions

- Digital clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Daily/weekly program can be set to the minute
- Date-controlled holiday program
- Programming displayed graphically by a bar arrangement in the LCD
- Fully automatic summer/winter-time correction

- Manual switching pre-selection and operation mode selector for: Automatic mode, comfort mode, reduction mode, frost protection mode
- PIN coding
- Connection for telephone remote control for switching to comfort mode or frost protection mode
- LED display of active operating status as well as relay status

RAMSES 366/1 top

- Zone control, 1 zone
- 1 external temperature sensor required

RAMSES 366/2 top

- Zone control, 2 zones
- 2 external temperature sensors required

Product selection

Number of channels	Program	Switching capacity at 250 V AC	Setting range temperature	Operating voltage	Type	Article number
1	Weekly program	10 (2) A	+6 °C ... +30 °C	230 V AC	RAMSES 366/1 top	3660002
2	Weekly program	10 (2) A	+6 °C ... +30 °C	230 V AC	RAMSES 366/2 top	3660052

Technical data

	RAMSES 366/1 top	RAMSES 366/2 top
Operating voltage	230 V AC	
Frequency	50–60 Hz	
Type of contact	Changeover contact	
Switching capacity	10 A (at 250 V AC, $\cos \varphi = 1$), 2 A (at 250 V AC, $\cos \varphi = 0.6$)	
Setting range temperature	+6 °C ... +30 °C	
Time basis	Quartz	
Program	Weekly program, Daily program, Holiday program	
Number of memory locations	42, max. 24 per program	
Switching output	Potential-free	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	
Power reserve	10 years	
Stand-by consumption	1,3 W	
Width	6 modules	
Type of protection	IP 20	
Protection class	II, Sensor III	

Accessories



External temperature sensor 1

↳ Art.No.: 9070191

Details page 254



External temperature sensor 2

↳ Art.No.: 9070192

Details page 254



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438

Details page 255

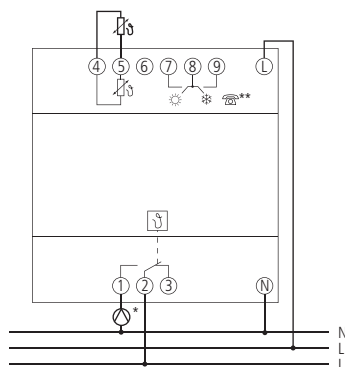


Actuator ALPHA 4 24 V

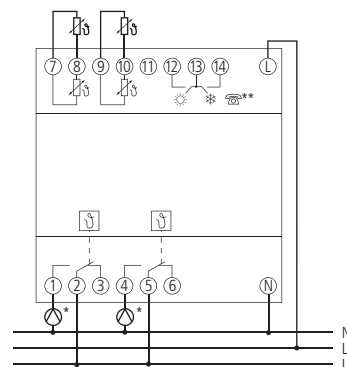
↳ Art.No.: 9070439

Details page 255

Connection diagrams



RAMSES 366/1 top



RAMSES 366/2 top

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V



RAMSES 784 S

Description

Common functions - Analogue clock thermostat with a low profile design for time-dependent monitoring and control of room temperature - Normal and reduced temperature can be set separately - Operating point and electronic recirculation are set from the front - Party switch and program display	RAMSES 784 S - Battery version - Segment program disc with daily program - Electronic temperature control - Quartz mechanism - Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C		- Battery monitoring with battery replacement indicator via flashing LED - Silting and pump protection function (option)
	RAMSES 722 S - Mains version - Synchronous motor drive		

Product selection

Power reserve	Type of connection	Program	Type of contact	Setting range temperature	Operating voltage	Type	Article number
–	2/3-way conductors	Daily program	Changeover contact	+10 °C ... +30 °C	2 AA batteries	RAMSES 784 S	7840801
	3-/4-conductors	Daily program	Changeover contact	+10 °C ... +30 °C	230 V AC	RAMSES 722 S	7220801

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V

Technical data

	RAMSES 784 S	RAMSES 722 S
Operating voltage	2 AA batteries	230 V AC
Frequency	–	50–60 Hz
Type of contact	Changeover contact	
Program	Daily program	
Switching capacity	6 A (at 250 V AC, $\cos \varphi = 1$), 1 A (at 250 V AC, $\cos \varphi = 0.6$)	
Switching differential	0,4–1,2 K	
Switching output	Potential-free	Potential-free, not for SELV
Setting range temperature	+10 °C ... +30 °C	
Shortest switching times	15 min	
Programmable every	15 min	
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz)	Synchronised with mains
Power reserve	–	
Stand-by consumption	1,1 W	1,1 W
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438

Details page 255

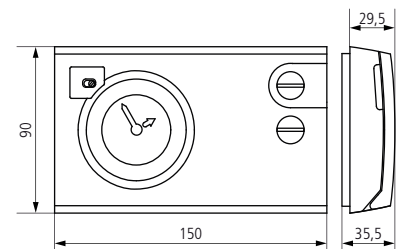
Actuator ALPHA 4 24 V

Details page 255

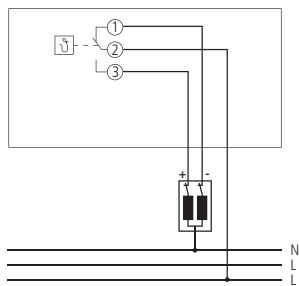
Adapter RAMSES 72x/78x

Details page 253

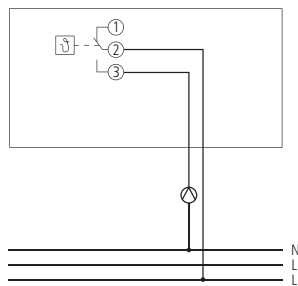
Scale drawings



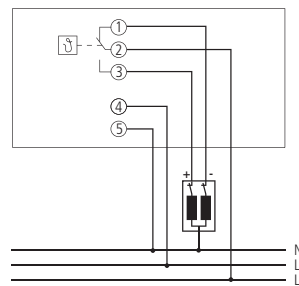
Connection diagrams



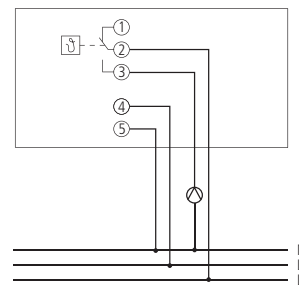
RAMSES 784 S



RAMSES 784 S



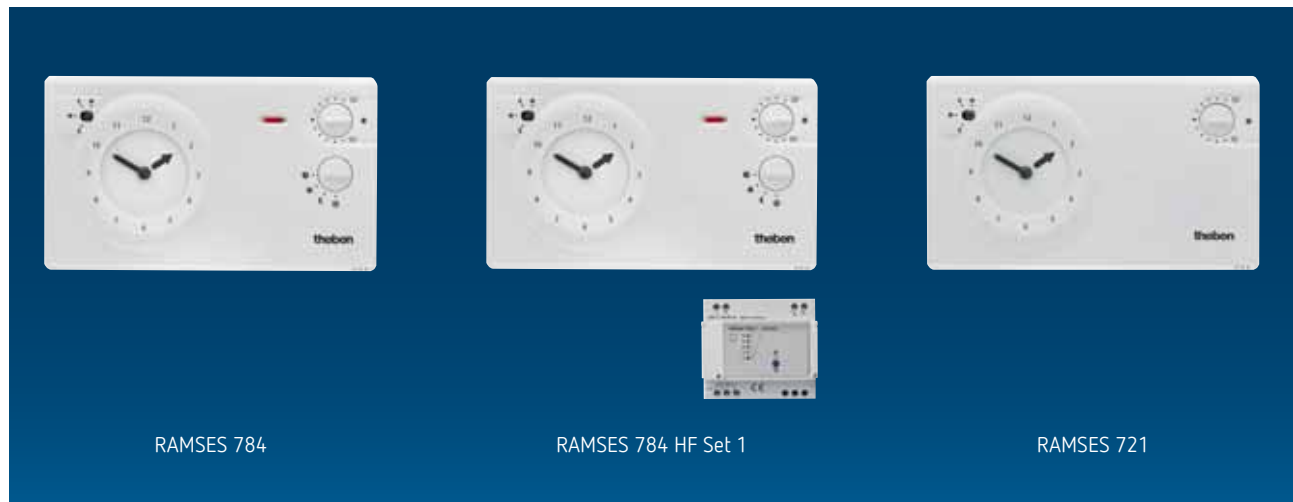
RAMSES 722 S



RAMSES 722 S

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V



Description

Common functions

- Analogue clock thermostat with a low profile design for time-dependent monitoring and control of room temperature
- Operating point and electronic recirculation are set from the front
- Party switch and program display
- Electronic temperature control
- Selector switch for operating mode: continuous reduced temperature, continuous normal temperature, automatic mode, frost and plant protection +6 °C

RAMSES 784

- Battery version
- Tappet program disc with daily or weekly program
- Normal and reduced temperature can be set separately
- Quartz mechanism
- Battery monitoring with battery replacement indicator via flashing LED
- Silting and pump protection function (option)

RAMSES 784 HF Set 1

- Radio-controlled system for room temperature control
- Consisting of one analogue clock thermostat RAMSES 784 HF and one REC 1 receiver (DIN rail) with a two-way switch 6 (1) A/250 V DC
- Tappet program disc with daily or weekly program
- RAMSES 784 HF battery version
- REC 1 mains version
- Normal and reduced temperature can be set separately

RAMSES 722

- Mains version
- Tappet program disc with daily or weekly program
- Synchronous motor drive
- Normal and reduced temperature can be set separately

RAMSES 782

- Mains version
- Tappet program disc with daily or weekly program
- Quartz mechanism, 3 day power reserve
- Normal and reduced temperature can be set separately

RAMSES 721

- Mains version
- Tappet program disc with daily program
- Synchronous motor drive
- Normal temperature can be set
- Reduced temperature approx. 5 K lower in relation to the set comfort temperature
- Without selector switch

RAMSES 725

As RAMSES 722, but:

- Reduced temperature can be set
- Central control of reduced temperature as per time program

Product selection

Type of contact	Setting range temperature	Power reserve	Type of connection	Program	Operating voltage	Type	Article number
Changeover contact	+10 °C ... +30 °C	–	2/3-way conductors	Daily/weekly program	2 AA batteries	RAMSES 784	7840030
			Radio controlled	Daily/weekly program	2 AA batteries	RAMSES 784 HF Set 1	7849407
			3-/4-conductors	Daily/weekly program	230 V AC	RAMSES 722	7220030
		3 days	3-/4-conductors	Daily/weekly program	230 V AC	RAMSES 782	7820030
		–	3-/4-conductors	Daily program	230 V AC	RAMSES 721	7210030
				Daily/weekly program	230 V AC	RAMSES 725	7250030

Climate control

Clock thermostats, Analogue battery version, Analogue 230 V

Technical data

	RAMSES 784	RAMSES 784 HF Set 1	RAMSES 722	RAMSES 782	RAMSES 721	RAMSES 725
Operating voltage	2 AA batteries		230 V AC			
Frequency	–		50 Hz	50–60 Hz	50 Hz	
Type of contact	Changeover contact					
Program	Daily/weekly program				Daily program	Daily/weekly program
Switching capacity	6 A (at 250 V AC, cos φ = 1), 1 A (at 250 V AC, cos φ = 0.6)					
Switching differential	0,4–1,2 K		0–1,2 K	0,4–1,2 K	1,5 K	
Switching output	Potential-free		Potential-free, not for SELV			
Setting range temperature	+10 °C ... +30 °C					
Shortest switching times	20 min, 120 min				20 min	20 min, 120 min
Programmable every	5 min, 30 min				5 min	5 min, 30 min
Time accuracy at 25 °C	≤ ± 1 s/day (quartz)		Synchronised with mains	≤ ± 1 s/day (quartz)	Synchronised with mains	
Power reserve	–			3 days	–	
Stand-by consumption	1,1 W	1,7 W	1,3 W	1,1 W	1,3 W	1,4 W
Type of protection	IP 20					
Protection class	II according to EN 60 730-1					

Accessories

Actuator ALPHA 4 230 V

Details page 255

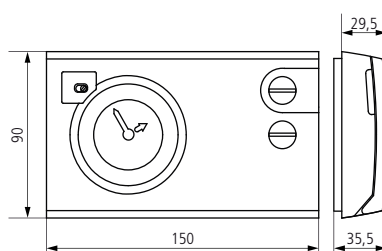
Actuator ALPHA 4 24 V

Details page 255

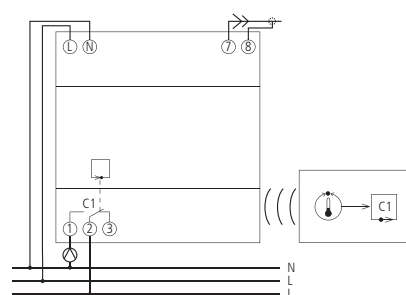
Adapter RAMSES 72x/78x

Details page 253

Scale drawings

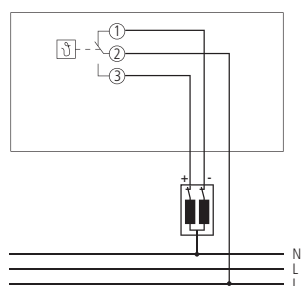


Connection diagrams

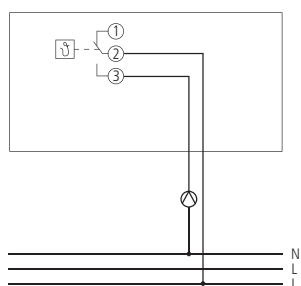


RAMSES 784 HF Set 1

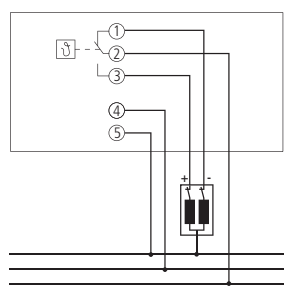
Connection diagrams



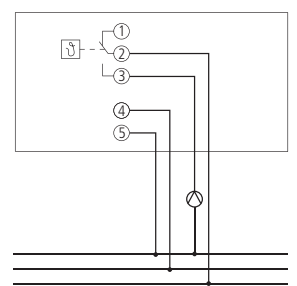
RAMSES 784



RAMSES 784



RAMSES 722, RAMSES 782,
RAMSES 721, RAMSES 725



RAMSES 722, RAMSES 782,
RAMSES 721, RAMSES 725

The perfect work climate

Cause and effect: Whoever wants to act efficiently must create the best conditions for themselves and their employees. The right attitude is decisive. Theben provides it with products such as presence detectors, room thermostats or KNX systems for home and building automation, we help people live, work and achieve more in a relaxed way and in a pleasant atmosphere. As a company we offer exactly that to our employees a reliable work environment. For us, it's a sign of our professionalism.



	Type of connection	Switching capacity at 230 V AC	Type of contact	Operating voltage	Installation type	Type	Page
Mechanical							
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 701	166
	3-/4-conductors	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 702	166
						RAMSES 703	166
						RAMSES 704	166
						RAMSES 705	166
	4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Surface-mounted	RAMSES 706	166
						RAMSES 707	166
	3-/4-conductors	Heating: 10 (4) A Cooling: 5 (2) A	Changeover contact	230–240 V AC	Surface-mounted	RAMSES 708	166
	4/5-way conductor	Heating: 10 (4) A Cooling: 5 (2) A	Changeover contact	230–240 V AC	Surface-mounted	RAMSES 709	166
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 741	168
	4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 746	168
	3-/4-conductors	Heating: 10 (4) A Cooling: 5 (1) A	Changeover contact	230–240 V AC	Flush-mounted	RAMSES 748	168
	2/3-way conductors	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 741 RA	168
	4/5-way conductor	10 (4) A	NC contact	230–240 V AC	Flush-mounted	RAMSES 746 RA	168
	3-/4-conductors	Heating: 10 (4) A Cooling: 5 (1) A	Changeover contact	230–240 V AC	Flush-mounted	RAMSES 748 RA	168
Electronic							
	2/3-way conductors	8 A	NC contact	230 V AC	Surface-mounted	RAMSES 714	170
	4/5-way conductor	16 A	NC contact	230 V AC	Surface-mounted	RAMSES 714 A	170
	5-way conductor	16 (4) A	NO contact	230 V AC	Flush-mounted	RAMSES 751 RA	170



Description

Common functions

- Room temperature controller with thermal feedback
- Suitable for all types of heating, e.g. gas, water, electric heating with central/individual room control
- Setting controller with mechanical setting limit or detection

RAMSES 701

see common functions

RAMSES 702

- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 703

- Internal setting: Temperature cannot be set externally. Temperature is set inside the device at start-up
- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 704

- Switch for additional heating ON/OFF + indicator lamp

RAMSES 705

- Switch for heating ON/OFF

RAMSES 706

- Switch for heating ON/OFF + indicator lamp
- Integrated temperature reduction (approx. 4 K) possible via control with time switch

RAMSES 707

- Switch for heating ON/OFF
- Switch for additional heating ON/OFF + indicator lamp

RAMSES 708

- Also suitable for air conditioning equipment
- Heating/cooling changeover contact

RAMSES 709

- Also suitable for air conditioning equipment
- Heating/cooling changeover contact
- 3-way selector switch for: comfort mode, reduction mode, external reduction
- Indicator lamp
- External temperature reduction (approx. 4 K) possible via control with time switch

Product selection

Operating voltage	Setting range temperature	Type of connection	Type of contact	Switching capacity at 230 V AC	Type	Article number
230–240 V AC	+5 °C ... +30 °C	2-/3-way conductors	NC contact	10 (4) A	RAMSES 701	7010001
					RAMSES 702	7020001
		3-/4-conductors	NC contact	10 (4) A	RAMSES 703	7030001
					RAMSES 704	7040001
					RAMSES 705	7050001
		4-/5-way conductor	NC contact	10 (4) A	RAMSES 706	7060001
					RAMSES 707	7070001
		3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (2) A	RAMSES 708	7080001
		4-/5-way conductor	Changeover contact	Heating: 10 (4) A Cooling: 5 (2) A	RAMSES 709	7090001

Technical data

	RAMSES 701–707	RAMSES 708	RAMSES 709
Operating voltage	230–240 V AC		
Frequency	50–60 Hz		
Type of contact	NC contact		Changeover contact
Switching capacity	10 A (at 230 V AC, cos $\varphi = 1$), 4 A (at 230 V AC, cos $\varphi = 0.6$)		Heating: 10 A (at 230 V AC, cos $\varphi = 1$), 4 A (at 230 V AC, cos $\varphi = 0.6$) Cooling: 5 A (at 230 V AC, cos $\varphi = 1$), 2 A (at 230 V AC, cos $\varphi = 0.6$)
Setting range temperature	+5 °C ... +30 °C		
Control accuracy	approx. 1 K, thermal recirculation		
Test approval			
Colour	Pure white (similar to RAL 9010)		
Installation type	Surface-mounted		
Type of protection	IP 30		
Protection class	II according to EN 60 730-1		

Accessories



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438

Details page 255

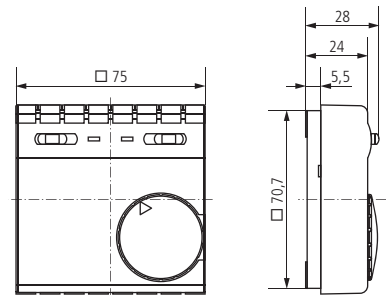


Adapter plate RAMSES 70x

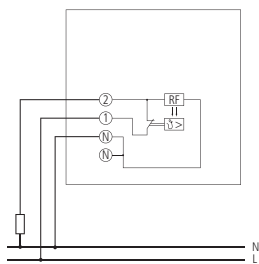
↳ Art.No.: 9070480

Details page 253

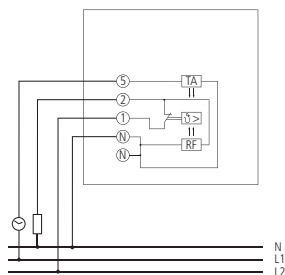
Scale drawings



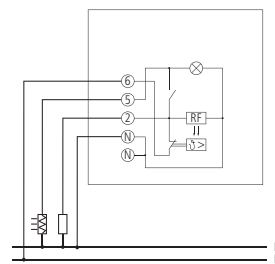
Connection diagrams



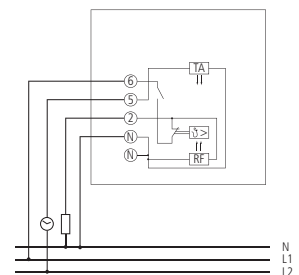
RAMSES 701



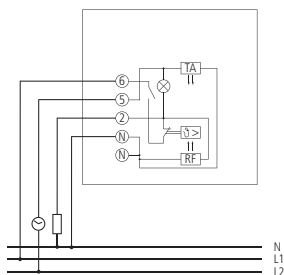
RAMSES 702, RAMSES 703



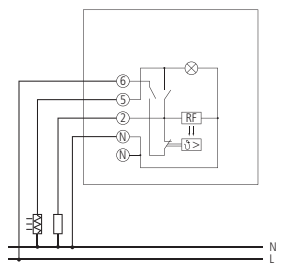
RAMSES 704



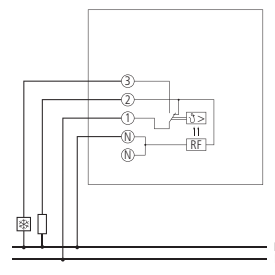
RAMSES 705



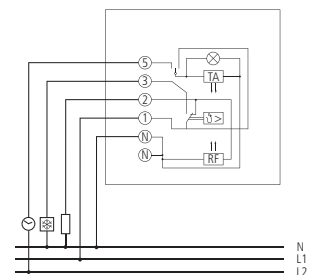
RAMSES 706



RAMSES 707



RAMSES 708



RAMSES 709

Climate control

Room thermostats, Mechanical



Description

Common functions

- Room temperature controller with thermal feedback
- Central part fits nearly all frames using an adapter frame from the switch manufacturer
- Ideal controller for refurbished and new build properties

RAMSES 741

- Supplied as replacement device without frame, central part and setting button, incl. protective cap
- Frame, central part and setting button available as accessories

RAMSES 746

- Switch for heating ON/OFF + indicator lamp
- Supplied as replacement device without frame, central part and setting button, incl. protective cap
- Frame, central part and setting button available as accessories

RAMSES 748

- Heating/cooling two-way switch
- Supplied as replacement device without frame, central part and setting button, incl. protective cap
- Frame, central part and setting button available as accessories

RAMSES 741 RA

- With frame, central part and setting button

RAMSES 746 RA

- With frame, central part and setting button
- Switch for heating ON/OFF + indicator lamp

RAMSES 748 RA

- Heating/cooling two-way switch
- With frame, central part and setting button

Product selection

Operating voltage	Setting range temperature	Scope of delivery	Type of connection	Type of contact	Switching capacity at 230 V AC	Type	Article number
230–240 V AC	+5 °C ... +30 °C	Without cover	2/3-way conductors	NC contact	10 (4) A	RAMSES 741	7410130
			4/5-way conductor	NC contact	10 (4) A	RAMSES 746	7460130
			3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (1) A	RAMSES 748	7480130
		With cover	2/3-way conductors	NC contact	10 (4) A	RAMSES 741 RA	7410131
			4/5-way conductor	NC contact	10 (4) A	RAMSES 746 RA	7460131
			3-/4-conductors	Changeover contact	Heating: 10 (4) A Cooling: 5 (1) A	RAMSES 748 RA	7480131

Technical data

	RAMSES 741	RAMSES 746	RAMSES 748	RAMSES 741 RA	RAMSES 746 RA	RAMSES 748 RA
Operating voltage	230–240 V AC					
Frequency	50–60 Hz					
Type of contact	NC contact		Changeover contact	NC contact		Changeover contact
Switching capacity	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)		Heating: 10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6) Cooling: 5 A (at 230 V AC, cos φ = 1), 1 A (at 230 V AC, cos φ = 0.6)	10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)		Heating: 10 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6) Cooling: 5 A (at 230 V AC, cos φ = 1), 1 A (at 230 V AC, cos φ = 0.6)
Setting range	+5 °C ... +30 °C					
Control accuracy	approx. 0.5 K, thermal recirculation					
Test approval						
Colour	–			Brilliant pure white (similar to RAL 9010)		
Installation type	Flush-mounted					
Type of protection	–			IP 30		
Protection class	II according to EN 60 730-1					

Accessories



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438

Details page 255

Central part RAMSES 741/748

Details page 256

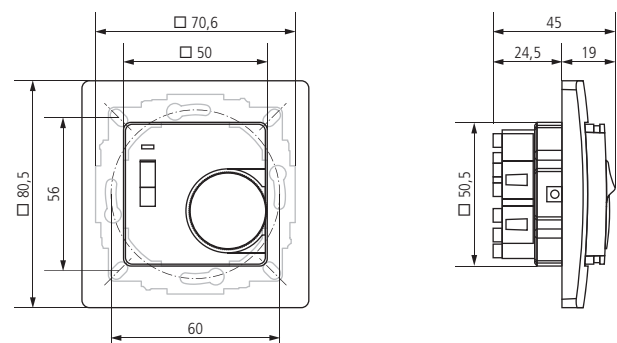
Central part RAMSES 746

Details page 256

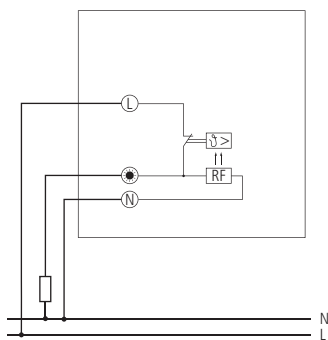
Frame RAMSES 74x

Details page 255

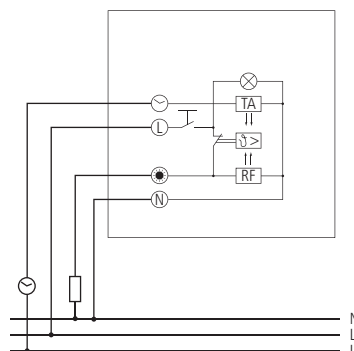
Scale drawings



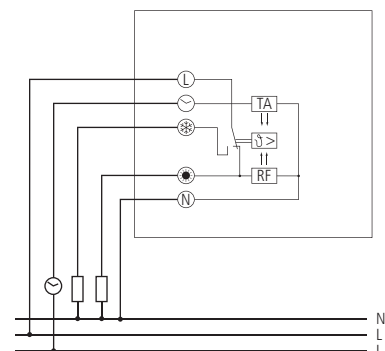
Connection diagrams



RAMSES 741, RAMSES 741 RA



RAMSES 746, RAMSES 746 RA



RAMSES 748, RAMSES 748 RA

Climate control

Room thermostats, Electronic



Description

RAMSES 714 - Electronic room thermostats for all types of heating, e.g. gas, water, electric heating etc. - Individual room control possible in combination with Theben actuators - Heating status display via LED - External temperature reduction (approx. 3.5 K) is possible via control with time switch. Temperature reduction can be cut to 2 K by opening a wire bridge	RAMSES 714 A As RAMSES 714, but: - External temperature sensor for underfloor heating (wet rooms or bathroom heating) - Switchable for the connection of available NTC sensors (33 KΩ / 25 $^{\circ}$C) - Switch for heating ON/OFF	RAMSES 751 RA - Electronic room thermostat with remote temperature sensor for underfloor heating control - Display of temperature reduction and heating ON - 2-pole mains switch for heating ON/OFF - Emergency mode for sensor malfunction at 30 % heating - External temperature reduction (approx. 3 K) is possible via control with time switch. - Central part fits nearly all frames using an adapter frame from the switch manufacturer
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Product selection

Type of connection	Type of contact	Switching capacity at 230 V AC	Setting range temperature	Installation type	Type	Article number
2/3-way conductors	NC contact	8 A (at 230 V AC, cos φ = 1)	+5 $^{\circ}$ C ... +30 $^{\circ}$ C	Surface-mounted	RAMSES 714	7140002
4/5-way conductor	NC contact	16 A (at 230 V AC, cos φ = 1)	+10 $^{\circ}$ C ... +60 $^{\circ}$ C	Surface-mounted	RAMSES 714 A	7140016
5-way conductor	NO contact	16 (4) A	+10 $^{\circ}$ C ... +50 $^{\circ}$ C	Flush-mounted	RAMSES 751 RA	7510131

Technical data

	RAMSES 714	RAMSES 714 A	RAMSES 751 RA
Operating voltage	230 V AC		
Frequency	50 Hz		
Type of contact	NC contact		NO contact
Switching output	Not potential-free		Potential-free
Switching capacity	8 A (at 230 V AC, cos φ = 1)	16 A (at 230 V AC, cos φ = 1)	16 A (at 230 V AC, cos φ = 1), 4 A (at 230 V AC, cos φ = 0.6)
Setting range temperature	+5 $^{\circ}$ C ... +30 $^{\circ}$ C	+10 $^{\circ}$ C ... +60 $^{\circ}$ C	+10 $^{\circ}$ C ... +50 $^{\circ}$ C
Control accuracy	$\pm$ 0.25 K	$\pm$ 0.5 K	
Control behaviour	–		Proportional controller with PWM (continuous type)
Colour	Pure white (similar to RAL 9010)		
Installation type	Surface-mounted		Flush-mounted
Max. cable length	–	Length 4 m, $\varnothing$ 6 mm, (IP 54)	Length 4 m, $\varnothing$ 6 mm, extendable to 50 m

	RAMSES 714	RAMSES 714 A	RAMSES 751 RA
Ambient temperature	–		0 °C ... +40 °C
Type of protection	IP 20		IP 30
Protection class	II according to EN 60 730-1		

Accessories



Actuator ALPHA 4 230 V

↳ Art.No.: 9070438

Details page 255



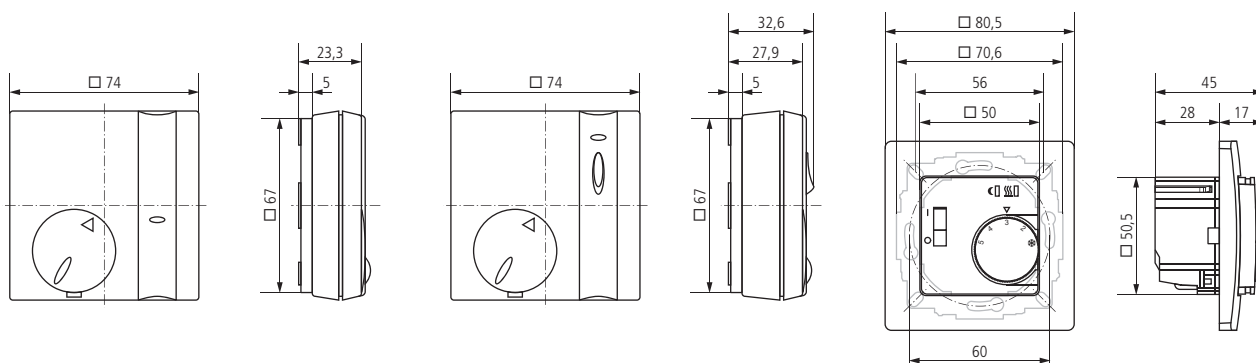
Adapter plate RAMSES 714

for RAMSES 714, RAMSES 714 A

↳ Art.No.: 9070212

Details page 254

Scale drawings

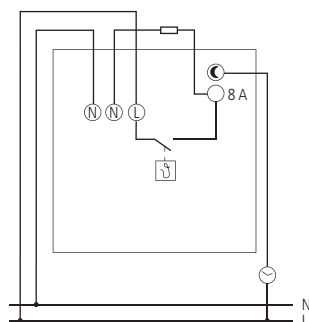


RAMSES 714

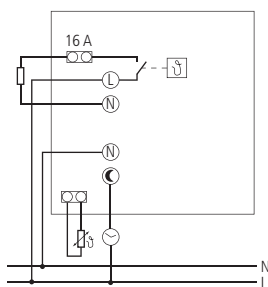
RAMSES 714 A

RAMSES 751 RA

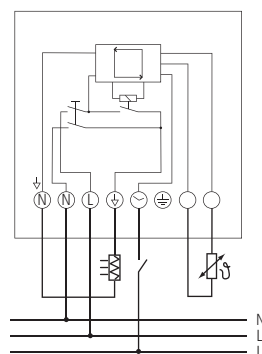
Connection diagrams



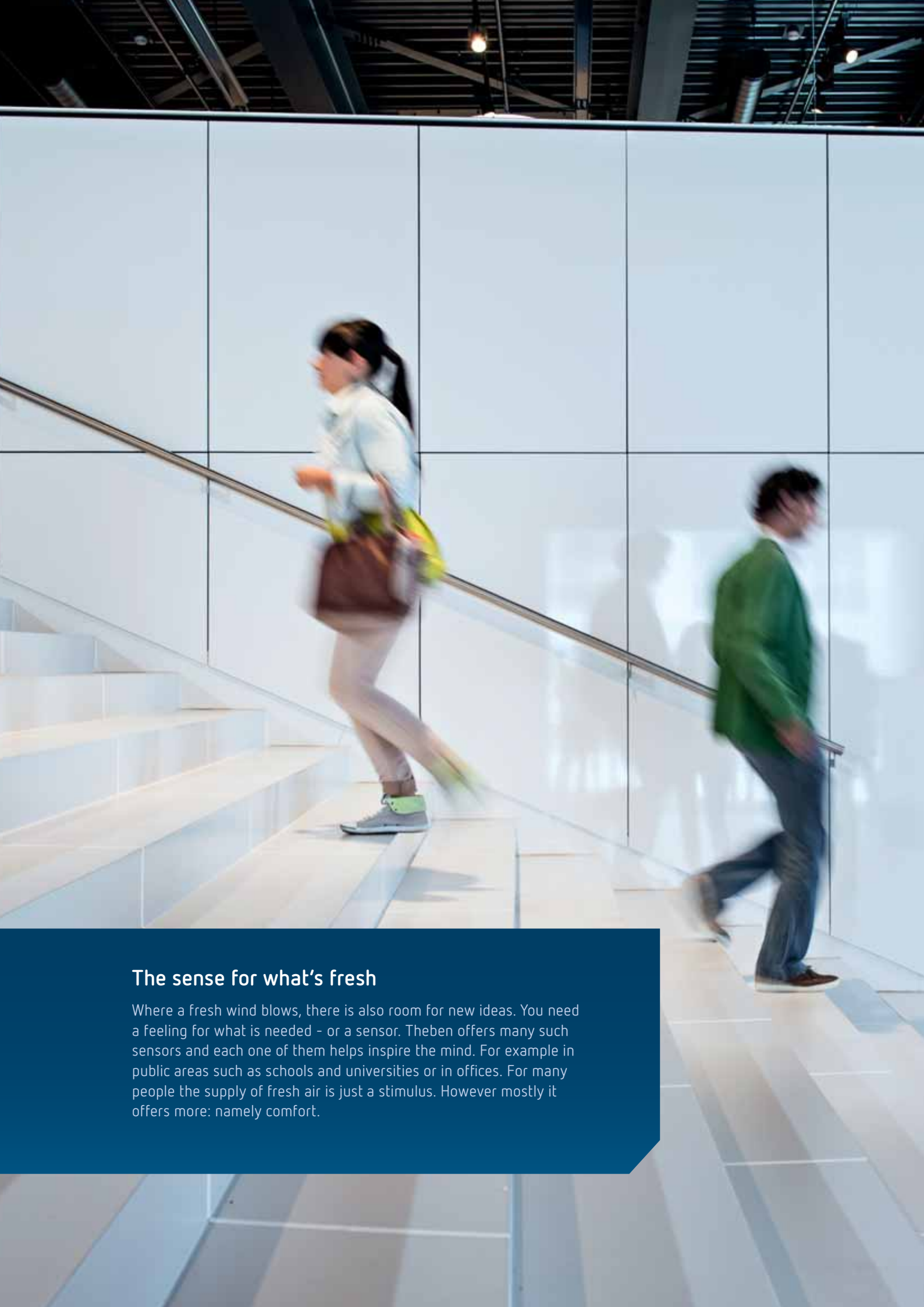
RAMSES 714, RAMSES 714 A



RAMSES 714 A



RAMSES 751 RA



The sense for what's fresh

Where a fresh wind blows, there is also room for new ideas. You need a feeling for what is needed - or a sensor. Theben offers many such sensors and each one of them helps inspire the mind. For example in public areas such as schools and universities or in offices. For many people the supply of fresh air is just a stimulus. However mostly it offers more: namely comfort.

Description	Type	Page
CO₂ sensors		
 CO ₂ sensor for ventilation control and monitoring of air quality in the room with switch and analog outputs	AMUN 716 R	174
Hygrostat		
 Hygrostat for wall installation for control of humidifiers or ventilation and dehumidifier systems	SOTHIS 715	175

Climate control

CO₂ sensor



Description

- CO₂ sensor
- Suitable for conference and meeting rooms, offices, schools/nurseries, passive and low-energy housing.
- For fan control
- Warning display for CO₂ concentration (lights)
- Power unit optionally available. Power unit is suitable for flush mounted installation
- Simple upgrade of uncontrolled ventilation systems possible
- 2 switch outputs CO₂ controlled for 2 stage control, with manual and automatic mode as well as display of switching status
- 3 x 0–10 V outputs for CO₂, temperature and relative humidity

Product selection

Measuring range	Data interface	Display	Operating voltage	Protection class	Type	Article number
0–2000 ppm	3 x 0–10 V, 2 x relay 5 A/250 V AC	6 LEDs	24 V AC/DC	II	AMUN 716 R	7160101

Technical data

AMUN 716 R			
Operating voltage	24 V AC/DC SELV	ON/OFF thresholds	700 ppm ±200 ppm, 1300 ppm ±200 ppm
Outputs	3 x 0–10 V, 2 x relay 5 A/250 V AC	Type of connection	Screw terminals
Measuring range CO ₂	0–2000 ppm	Display	6 LEDs
Measuring range temperature	+5 °C ... +40 °C	Installation type	Wall installation (also on flush-mounted socket possible)
Measuring range humidity	30–80 % rF	Type of protection	IP 20
Hysteresis	±75 ppm	Protection class	II according to EN 60 730-1

Accessories

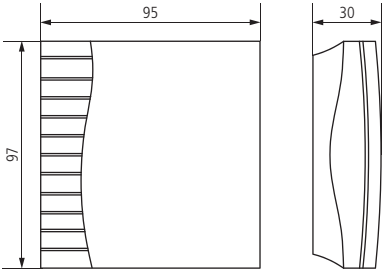


Power unit CO₂-sensor

↳ Art.No.: 9070494

Details page 256

Scale drawings





Description

- Hygrostat for wall installation
- Measurement of relative humidity
- Suitable for control of humidifiers or ventilation and dehumidifier systems
- Use SELV when there is a risk of high humidity and the build up of condensation

Product selection

Measuring range	Type of contact	Switching capacity humidifier	Switching capacity dehumidifying	Type	Article number
35–100 % rF	Changeover contact	2 A	5 A	SOTHIS 715	7150002

Technical data

SOTHIS 715			
Switching capacity dehumidifying	5 A	Installation type	Wall installation
Switching capacity humidifier	2 A	Type of protection	IP 30
Suitable for SELV	Yes	Protection class	II according to EN 60 730-1
Colour	Pure white (similar to RAL 9010)		

Accessories

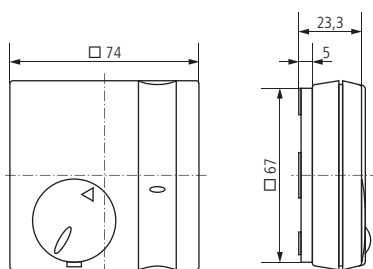


Adapter plate RAMSES 714

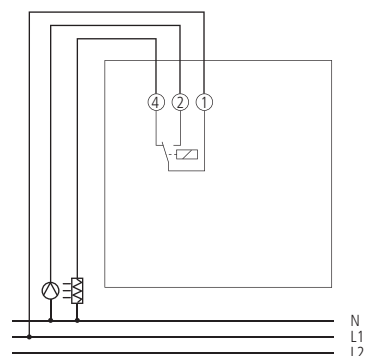
↳ Art.No.: 9070212

Details page 254

Scale drawings



Connection diagrams



How novelties arise

Progress thrives on exchange and from intelligently developing what's already proved itself or applying it to other spheres. Theben is an example of that. Over and over again, through changes in technology, we have pushed open the door to new areas and thus successfully completed the transformation from mechanical to electromechanical systems and digital technology to systems based on bus technology. Behind that lies the competence of our employees - and we do everything to promote that. Because that is the precondition for developing innovations.



	Description	Type	from page
Switching actuators			
	Switching actuators MIX2	RMG 4 I KNX/RME 4 I KNX/RMG 8 S KNX/RME 8 S KNX	178
	Switching actuators MIX	RMG 4 C load/KNX RME 4 C load/KNX RMG 4 S KNX/RME 4 S KNX	180
Dimming actuators			
	Control units 2–6 channels MIX	SMG 2 S KNX/SME 2 S KNX/DMG 2 T KNX/DME 2 T KNX/DMB 1 T KNX	182
	Universal dimming actuators 2–6 channels MIX2/MIX	DMG 2 T KNX/DME 2 T KNX/DMB 1 T KNX/DMG 2 S KNX/DME 2 S KNX/DMB 2 S KNX	186
Blinds actuators			
	Blinds actuators 4–12 channels MIX	JMG 4 S KNX/JME 4 S KNX	188
Binary inputs			
	Binary inputs 6–18 channels MIX	BMG 6 KNX/BME 6 KNX	189
	Binary inputs for flush-mounted sockets	TA 2 KNX/TA 4 KNX/TA 6 KNX	190
HVAC controller			
	Multifunction display and room thermostats	VARIA 826 KNX/RAMSES 713 S KNX/RAMSES 712 KNX	191
	Heating actuators	HMG 4 KNX/HME 4 KNX/HMT 6 KNX/HMT 12 KNX	194
	Motor-driven actuators	CHEOPS control KNX/CHEOPS drive KNX	196
	CO ₂ Room air sensor	AMUN 716 KNX	197
	Room thermostat Fan-Coil and Fan-Coil actuator	RAMSES 713 FC KNX/FCA 1 KNX	198
Presence and motion detectors			
	Motion detectors	SPHINX 105-300 KNX/SPHINX 331 S KNX/SPHINX 332 S KNX	200
	Presence detectors	PresenceLight 360 KNX/compact passage KNX/compact passimo KNX/thePrema KNX/PlanoCentro KNX/PresenceLight 180 KNX	202
Weather station, brightness sensor			
	Weather stations KNX	Meteodata 140 KNX/Weather station KNX/Meteodata 139 KNX	212
	Brightness and temperature sensors	LUNA 134 KNX/LUNA 131 S KNX/LUNA 133 KNX	215
Digital time switches			
	8 channel time switch with yearly and astro program	TR 648 top2 RC KNX/TR 648 top2 RC-DCF KNX	218
Gateways			
	KNX-OpenTherm-Gateway	DALI Gateway KNX	222
	KNX-DALI-interface	KNX-OT-Box	223
System devices			
	Time signal transmitter	ZS 600 DCF KNX	220
	Supply voltage	Power supply KNX 640 mA/320 mA/160 mA	224
	Interface and line coupler	Interface USB KNX/Line coupler S KNX	225
Display units			
	KNX indoor clocks	OSIRIA KNX	226



Description

Common functions

- 4-way C load switching actuator MIX2
- With current recognition
- For higher lamp loads
- Up to two extension modules MIX or MIX2 can be connected to one basic module
- Device and KNX bus module can be swapped independently of each other

- Removable KNX bus module enables devices to be changed without reprogramming
- Manual set-up and use of switching actuators is possible without KNX bus module
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning

- Logical links: e.g. lock, AND, release, OR

RMG 4 I KNX

- Basic module MIX2
- Can be upgraded to maximum of 12 channels

RME 4 I KNX

- Extension module MIX2
- For upgrading to maximum of 12 channels

Product selection

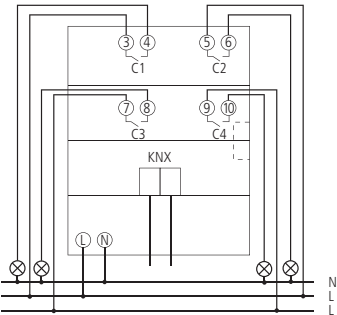
Type	Article number
RMG 4 I KNX	4930210
RME 4 I KNX	4930215

Technical data

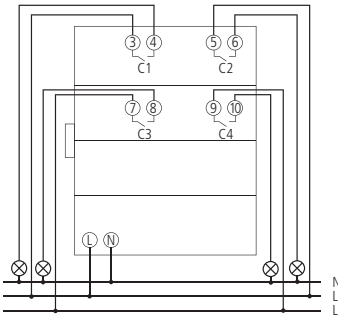
	RMG 4 I KNX	RME 4 I KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–
Operating voltage	110–240 V AC	
Frequency	50–60 Hz	
Stand-by consumption	1,3 W	0 W
Width	4 modules	
Type of contact	NO contact, 16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0,6)	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

12

Connection diagrams



RMG 4 I KNX



RME 4 I KNX



RMG 8 S KNX



RME 8 S KNX

Description

Common functions

- 8-way switching actuator MIX2
- Up to two extension modules MIX or MIX2 can be connected to one basic module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming

- Manual set-up and use of switching actuators is possible without KNX bus module
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Switching functions: On/Off, pulse, On/Off delay, staircase light with warning

- Logical links: e.g. lock, AND, release, OR

RMG 8 S KNX

- Basic module MIX2
- Can be upgraded to maximum of 24 channels

RME 8 S KNX

- Extension module MIX2
- For upgrading to maximum of 24 channels

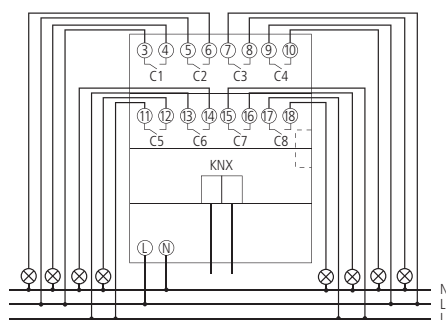
Product selection

Type	Article number
RMG 8 S KNX	4930220
RME 8 S KNX	4930225

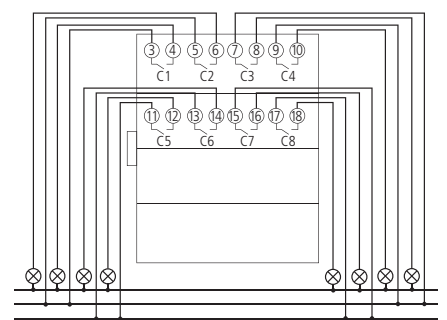
Technical data

	RMG 8 S KNX	RME 8 S KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA	—
Operating voltage	110–240 V AC	—
Frequency	50–60 Hz	—
Stand-by consumption	0,3 W	—
Width	4 modules	
Type of contact	NO contact, 16 A (at 250 V AC, $\cos \varphi = 1$), 3 A (at 250 V AC, $\cos \varphi = 0,6$)	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II	

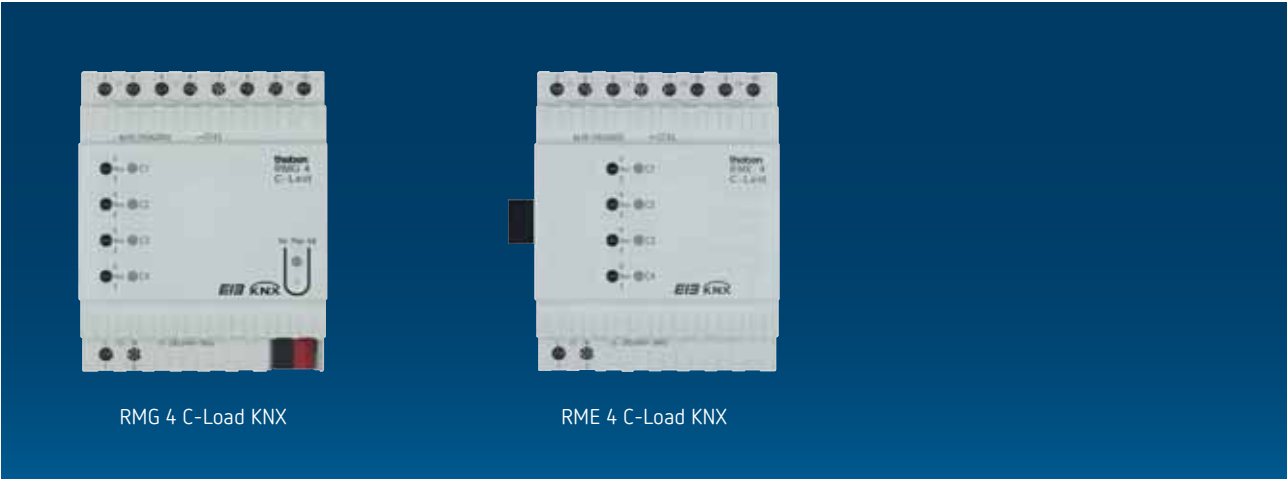
Connection diagrams



RMG 8 S KNX



RME 8 S KNX



Description

Common functions

- 4-way C load switching actuator MIX
- For higher lamp loads
- Up to 2 extension modules can be connected to a basic module
- Can be combined with all MIX series devices

- Free combination of switches, dimming, blinds and heating control as well as binary inputs
- LED switching status display for each channel
- Manual switch with On/Off/Bus settings (also without bus voltage)
- Switching functions: e.g. On/Off, pulse, On/Off delay, staircase light with warning

- Logical links: e.g. lock,AND, release, OR

RMG 4 C-Load KNX

- Basic module MIX
- Can be upgraded to maximum of 12 channels

RME 4 C-Load KNX

- Extension module MIX
- For upgrading to maximum of 12 channels

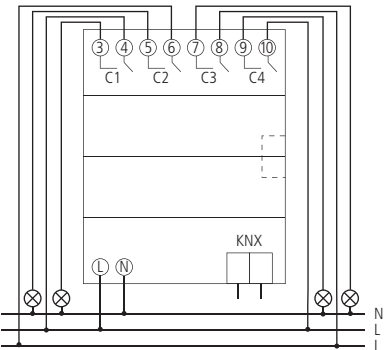
Product selection

Type	Article number
RMG 4 C-Load KNX	4910206
RME 4 C-Load KNX	4910207

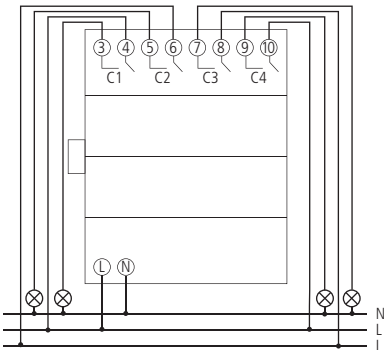
Technical data

	RMG 4 C-Load KNX	RME 4 C-Load KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	2 W	
Width	4 modules	
Type of contact	NO contact, 16 A (at 250 V AC, cos φ = 1), 16 A (at 250 V AC, cos φ = 0,6)	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Connection diagrams



RMG 4 C-Load KNX



RME 4 C-Load KNX



RMG 4 S KNX



RME 4 S KNX

Description

Common functions

- 4-way switching actuator MIX
- Up to 2 extension modules can be connected to a basic module
- Can be combined with all MIX series devices
- Free combination of switches, dimming, blinds and heating control as well as binary inputs

- LED switching status display for each channel
- Manual switch with On/Off/Bus settings (also without bus voltage)
- Switching functions: e.g. On/Off, pulse, On/Off delay, staircase light with warning
- Logical links: e.g. lock,AND, release, OR

RMG 4 S KNX

- Basic module MIX
- Can be upgraded to maximum of 12 channels

RME 4 S KNX

- Extension module MIX
- For upgrading to maximum of 12 channels

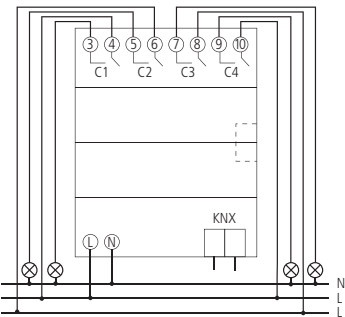
Product selection

Type	Article number
RMG 4 S KNX	4910204
RME 4 S KNX	4910205

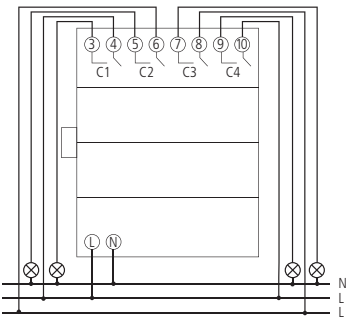
Technical data

	RMG 4 S KNX	RME 4 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	—
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1,3 W	
Width	4 modules	
Type of contact	NO contact, 16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0,6)	
Ambient temperature	−5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Connection diagrams



RMG 4 S KNX



RME 4 S KNX

Home and building control
KNX, 1–10 V control units



Description

Common functions

- 2-way 1–10 V control unit MIX
 - Free combination of switches, dimming, blinds and heating control as well as binary inputs
 - Switching and dimming of lighting circuits in combination with electronic ballasts (EBs and ballasts LED)
- 1–10 V inputs and one switch output (relay contact) per channel
 - LED switching status display for each channel
 - Manual switch with On/Off/Bus settings (also without bus voltage)
 - With crossover switching to spare the relay contact

SMG 2 S KNX

- Basic module MIX
- Can be upgraded to maximum of 6 channels

SME 2 S KNX

- Extension module MIX
- For upgrading to maximum of 6 channels

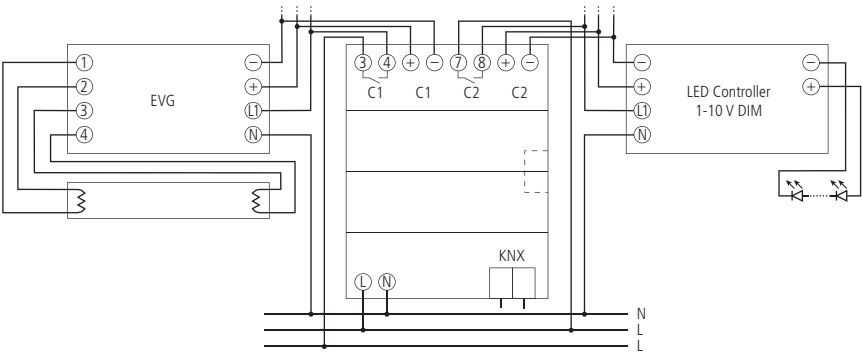
Product selection

Type	Article number
SMG 2 S KNX	4910273
SME 2 S KNX	4910274

Technical data

	SMG 2 S KNX	SME 2 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1,6 W	
Width	4 modules	
Type of contact	NO contact, 16 A (at 250 V AC, cos φ = 1), 10 A (at 250 V AC, cos φ = 0,6)	
Incandescent/halogen lamp load	2500 W	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Connection diagrams





Description

Common functions

- 2-way universal dimmer actuator MIX2
- For dimming dimmable LED, incandescent lamps, LV, HV halogen lamps and energy saving lamps
- Also suitable for dimming of dimmable energy-saving lamps
- Also suitable for controlling fans
- Up to two extension modules MIX or MIX2 can be connected to one basic module
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module enables devices to be changed without reprogramming

- Manual set-up and use of switching actuators is possible without KNX bus module
- LED switching status display for each channel
- Manual operation on device (even without bus connection)
- Dimming output: 400 W/VA per channel or 800 W/VA in parallel operation
- If the DMB 1 T KNX 'Dimbooster' is used, the dimming output can be upgraded to 300 W/VA. Output to a maximum of 2000 W/VA by using max. 4 boosters possible
- Automatic load detection (can be deactivated)
- For R, L and C loads

DMG 2 T KNX

- Basic module MIX2
- Can be upgraded to maximum of 6 channels

DME 2 T KNX

- Extension module MIX2
- For upgrading to maximum of 6 channels

DMB 1 T KNX

- 1 channel dimming output extension module "Dimmbooster"
- For extending the output of basic and extension dimming actuators up to 300 W/VA per channel. Extending output to a maximum of 2000 W/VA by using max. 4 boosters possible

Product selection

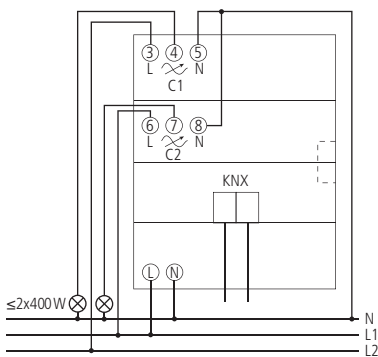
Type	Article number
DMG 2 T KNX	4930270
DME 2 T KNX	4930275
DMB 1 T KNX	4930279

Technical data

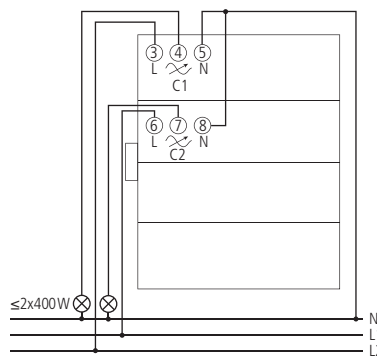
	DMG 2 T KNX	DME 2 T KNX	DMB 1 T KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–	
Operating voltage	230 V AC		
Frequency	50 Hz		
Stand-by consumption	0,9 W	0,6 W	0,2 W
Width	4 modules		1 module
Lamp types	Incandescent, low-voltage and high-voltage halogen and dimmable energy saving lamps and LED		Incandescent, low-voltage and high-voltage halogen and dimmable LED
Switching capacity per channel	400 W		300 W/VA
Switching capacity in parallel operation	800 W		–

	DMG 2 T KNX	DME 2 T KNX	DMB 1 T KNX
Switching capacity dimmable energy saving lamps per channel	80 W		–
Switching capacity dimmable energy saving lamps in parallel operation	140 W		–
Switching capacity dimmable 230 V LED per channel	60 W		–
Switching capacity dimmable 230 V LED in parallel operation	120 W		–
Switching capacity min.	5 W		
Ambient temperature	–5 °C ... +45 °C		
Type of protection	IP 20		
Protection class	II according to EN 60 669		

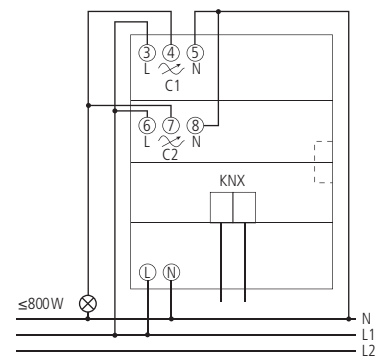
Connection diagrams



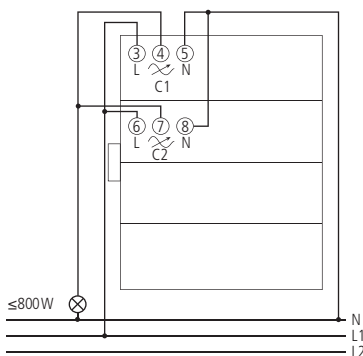
DMG 2 T KNX



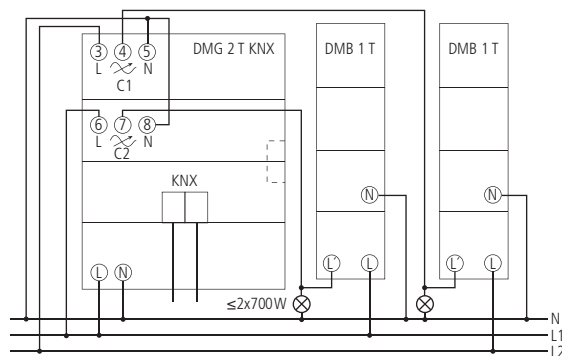
DME 2 T KNX



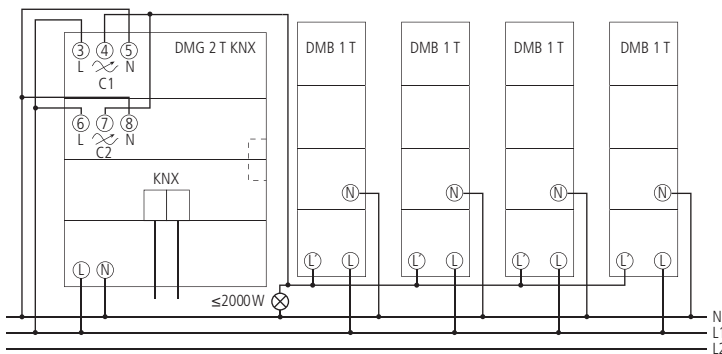
DMG 2 T KNX



DME 2 T KNX



DMG 2 T KNX, DMB 1 T KNX



DMG 2 T KNX

Home and building control

KNX, Dimming actuators



Description

Common functions

- 2-way universal dimmer actuator MIX
- For dimming incandescent lamps, LV and HV halogen lamps
- Also suitable for dimming of dimmable energy-saving lamps
- Also suitable for controlling fans
- Up to 2 extension modules can be connected to a basic module.
- Can be combined with all MIX series devices
- Free combination of switches, dimming, blinds and heating control as well as binary inputs

- Dimming output:
2 x 300 W/VA or 1 x 500 W/VA
- If the DMB 2 S KNX „Dimmbooster“ is used, the dimming output per device can be doubled to: 2 x 600 W/VA or 1 x 1,000 W/VA
- LED switching status display for each channel
- Manual switch with On/Off/Bus settings (also without bus voltage)
- Automatic load detection (can be deactivated)

DMG 2 S KNX

- Basic module MIX
- Can be upgraded to maximum of 6 channels

DME 2 S KNX

- Extension module MIX
- For upgrading to maximum of 6 channels

DMB 2 S KNX

- 2 channel dimming output extension module „Dimmbooster“
- To double the output of basic and extension dimming actuators modules. e.g. to:
2 x 600 W/VA (2 channels) or
1 x 1.000 W/VA (1 channel)

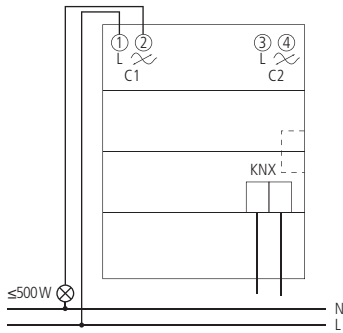
Product selection

Type	Article number
DMG 2 S KNX	4910270
DME 2 S KNX	4910271
DMB 2 S KNX	4910272

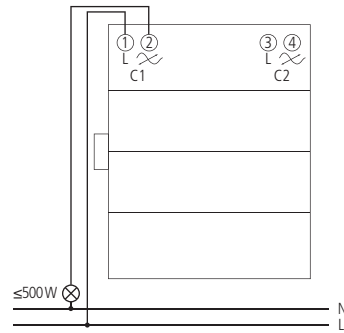
Technical data

	DMG 2 S KNX	DME 2 S KNX	DMB 2 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–	
Operating voltage	230 V AC, 50 Hz		
Stand-by consumption	0,5 W		0,8 W
Width	4 modules		
Lamp types	Incandescent, low-voltage and high-voltage halogen and dimmable energy saving lamps		Incandescent, low-voltage and high-voltage halogen lamps
Switching capacity per channel	300 W/VA		Upgrade to 600 W/VA
Switching capacity in parallel operation	500 W/VA		Upgrade to 1000 W/VA
Switching capacity min.	20 W/VA, 7 W/VA (ESL)		300 W
Switching capacity energy saving lamps	max. 2 x 60 W or 1 x 100 W		–
Ambient temperature	–5 °C ... +45 °C		
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		

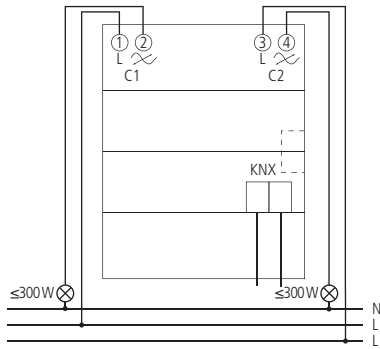
Connection diagrams



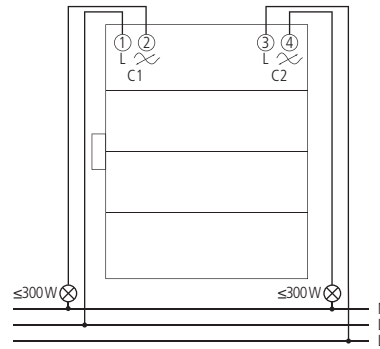
DMG 2 S KNX



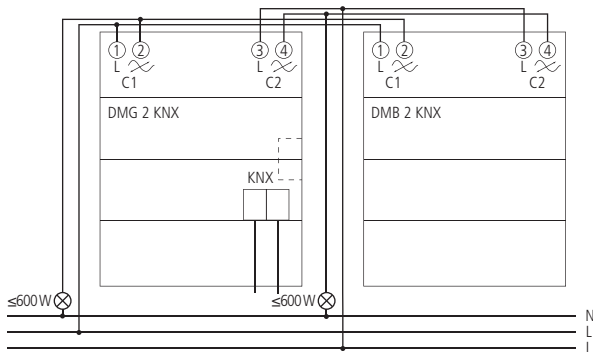
DME 2 S KNX



DMG 2 S KNX



DME 2 S KNX



DMB 2 S KNX



Description

Common functions

- 4-way blind actuator MIX
- Can be upgraded to maximum of 12 channels
- For controlling drives for blinds, shutters, sun and vision protection devices, skylights and ventilation flaps
- Up to 2 extension modules can be connected to a basic module

- Can be combined with all MIX series devices
- Free combination of switches, dimming, blinds and heating control as well as binary inputs
- Manual operation on device (even without bus connection)
- LED Up and Down switching status display for each channel

- Potential-free contacts for Up and Down per channel
- Setting option for phase sequence and running time of drives
- Copy function for fast configuration

JMG 4 S KNX

- Basic module MIX

JME 4 S KNX

- Extension module MIX

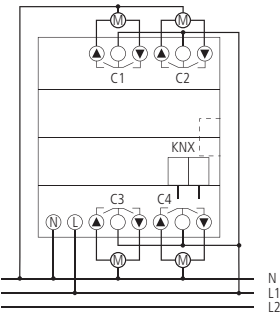
Product selection

Type	Article number
JMG 4 S KNX	4910250
JME 4 S KNX	4910251

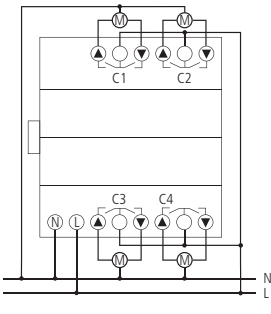
Technical data

	JMG 4 S KNX	JME 4 S KNX
Operating voltage KNX	Bus voltage, ≤ 8 mA	–
Operating voltage	230 V AC	
Stand-by consumption	1,6 W	
Frequency	50 Hz	
Width	4 modules	
Type of contact	NO contact, 3 A (at 250 V AC, $\cos \phi = 1$)	
Ambient temperature	$-5^{\circ}\text{C} \dots +45^{\circ}\text{C}$	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Connection diagrams



JMG 4 S KNX



JME 4 S KNX



BMG 6 KNX



BME 6 KNX

Description

Common functions

- 6-way binary input MIX
- Multi-voltage input 8–250 AC/DC or auxiliary supply from device (approx. 18 V DC/20 mA)
- Potential-free inputs
- Up to 2 extension modules can be connected to a basic module

- Can be combined with all MIX series devices
- Free combination of switches, dimming, blinds and heating control as well as binary inputs
- All inputs can be operated with different voltages
- Free allocation of functions: Switch/key, dimming, blinds, valuator, counter

- LED switching status display for each input

BMG 6 KNX

- Basic module MIX
- Can be upgraded to maximum of 18 channels

BME 6 KNX

- Extension module MIX
- For upgrading to maximum of 18 channels

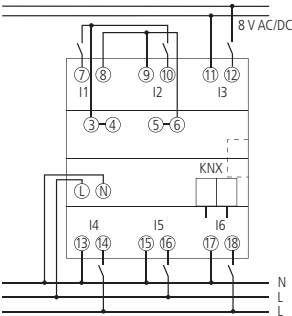
Product selection

Type	Article number
BMG 6 KNX	4910230
BME 6 KNX	4910231

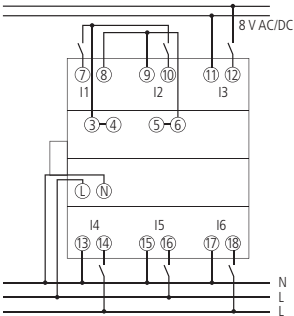
Technical data

	BMG 6 KNX	BME 6 KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,3 W	
Width	4 modules	
Voltage inputs	8–250 V AC/DC, 3 mA	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

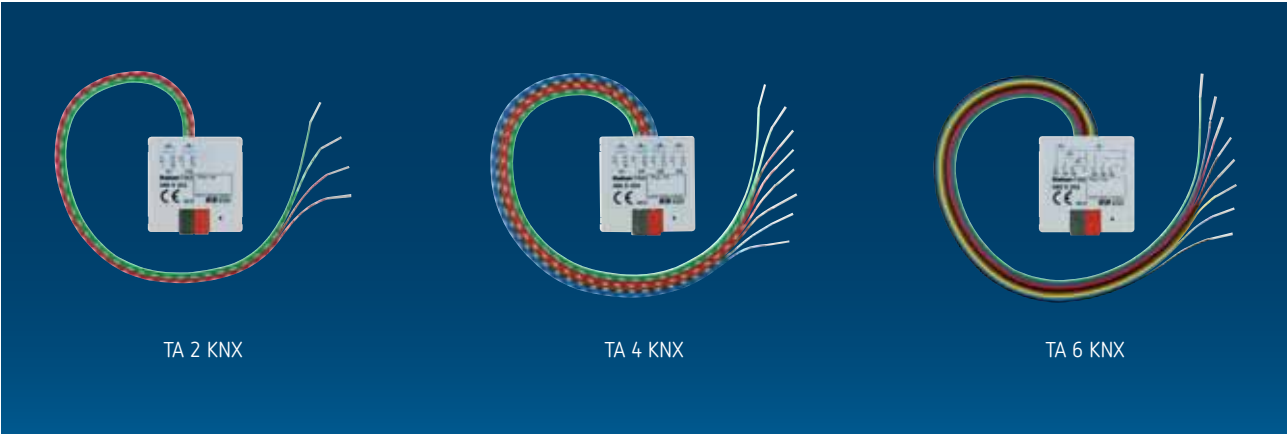
Connection diagrams



BMG 6 KNX



BME 6 KNX



Description

Common functions

- Binary input/binary output sensor interfaces
 - Can be installed in flush-mounted sockets with conventional sensors/switches
 - Free allocation of functions: Switch/key, dimming, blinds, valuator
 - Inputs can be reconfigured to outputs: binary input: potential-free contact/binary output: 1 mA (low current) (LED 1 mA types)
- Colour coding of wiring pairs
 - Grooves on side of housing for switch/sensor clamps

TA 2 KNX

- 2-way key interface
- 4-pole cable connection

TA 4 KNX

- 4-way key interface
- 8-pole cable connection

TA 6 KNX

- 6-way key interface
- 8-pole cable connection

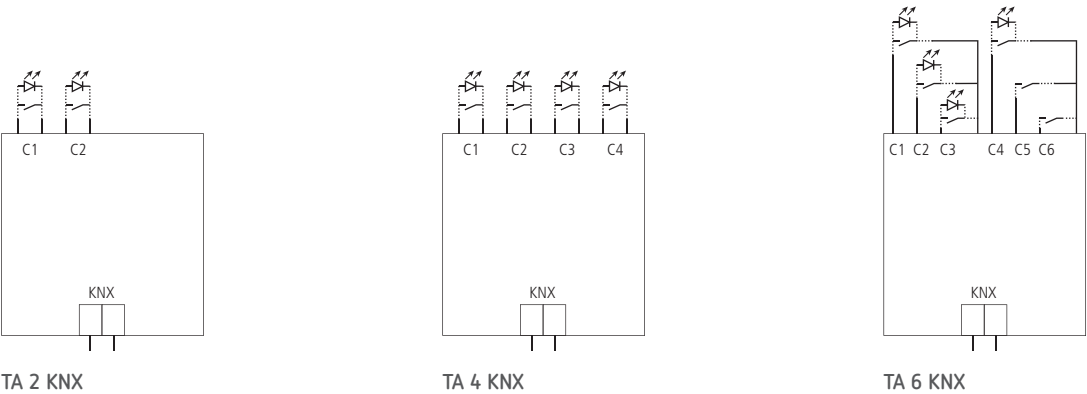
Product selection

Type	Article number
TA 2 KNX	4969202
TA 4 KNX	4969204
TA 6 KNX	4969206

Technical data

	TA 2 KNX	TA 4 KNX	TA 6 KNX
Operating voltage KNX	Bus voltage, ≤10 mA		
Length connecting wires	25 cm		
Ouput configuration LED	Low current 1 mA (LED 1 mA types) without series resistor		
Contact voltage	3,3 V		
Contact current	0,5 mA		
Interface extension max.	5 m		
Ambient temperature	−5 °C ... +45 °C		
Type of protection	IP 20		
Protection class	III		

Connection diagrams





VARIA 826 S BK KNX



VARIA 826 S WH KNX



Description

Common functions

- Multi-functional display with room thermostat
- Glass front in white or black
- Freely configurable for displaying and controlling functions e.g. light settings, sun protection systems
- Illuminated display and integrated timer
- For control and regulation of heating, fan coils, air conditioning systems

- Up to 7 different display pages
- Can also be operated without 230 V connection (double power consumption from bus system)
- Automatic summer/winter time adjustment with power reserve
- Controls up to 8 rooms via own temperature profiles
- Weekly time switch with 8 channels with up to 3 different statuses, e.g. for light, shutters, fans etc.

- 3 heating programs
- Alternative continuous or on/off control
- Operation modes: comfort, stand-by, temperature reduction at night, frost protection
- Weather data from Theben weather stations can be displayed
- Free choice of programming via the ETS without plug-in
- Installation in flush-mounted socket

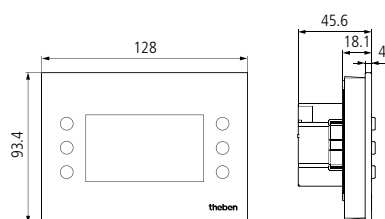
Product selection

Colour	Type	Article number
Glass front in white	VARIA 826 S WH KNX	8269210
Glass front in black	VARIA 826 S BK KNX	8269211

Technical data

	VARIA 826 S WH KNX	VARIA 826 S BK KNX
Operating voltage KNX	Bus voltage, ≤8 mA	
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	0,4 W	
Power reserve	1,5 years	
Display	Display with 132 x 72 points (8 lines with various functions) e.g. title, switching, dimming, blinds/shutters, % value, HVAC, counter value, temperature, 2-byte value, 8/16 bit counter value etc.	
Ambient temperature	0 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Scale drawings





RAMSES 713 S KNX

Description

- Individual room thermostat
- For controlling heating actuators or motorised actuators
- Can be used as a continuous or two point control (can also be combined).
- Continuous PI control can be configured for 2 stage heating (basic and additional stage, e. g. underfloor heating and radiators) or for heating and cooling (radiators and cooling surfaces)
- Two rotary controls are included in delivery: a numerical scale (mounted) and a relative scale (enclosed)
- Rotary control can be limited mechanically or via parameters
- Manual override button for presence or operation modes: comfort, stand-by, temperature reduction at night, frost protection
- 3 binary inputs for conventional switches/sensors (switching, dimming, blinds), also for external temperature sensor, window contact or presence signal
- Temperature sensor can be connected to give remote temperature reading
- LED (red) for heating mode, (blue) for cooling mode
- With integrated bus coupling unit

Product selection

Type	Article number
RAMSES 713 S KNX	7139201

Technical data

	RAMSES 713 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Ambient temperature	0 °C ... +50 °C
Measuring range temperature	0 °C ... +40 °C
Setting range temperature	+10 °C ... +28 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Accessoires

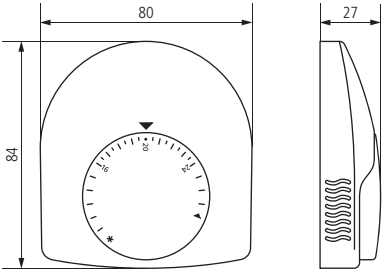


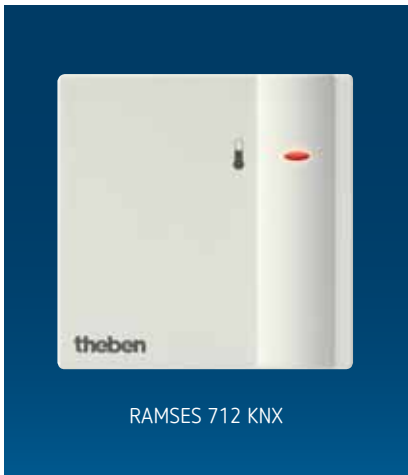
External temperature sensor 1
↳ Art.No.: 9070191
Details page 254



Temperature sensor
↳ Art.No.: 9070321
Details page 254

Scale drawings





RAMSES 712 KNX

Description

- Individual room thermostat
- For controlling heating actuators or motorised actuators
- Can be used as a continuous or two point control (can also be combined)
- Temperature sensor can be connected to give remote temperature reading
- Objects for night operation (only with „old“ operation mode selection) presence, window/frost.
- LED (red) for heating mode
- Inputs can be reconfigured to outputs for connecting LED (LED 1 mA types)
- 2 binary inputs for conventional switches/sensors (switch/sensor, dimmer, blinds, valuator, LED control)
- Can be installed in flush-mounted sockets (temperature sensor with electronic component can be removed from housing and installed in flush-mounted sockets with back-ventilated cover)
- With integrated bus coupling unit

Product selection

Type	Article number
RAMSES 712 KNX	7129200

Technical data

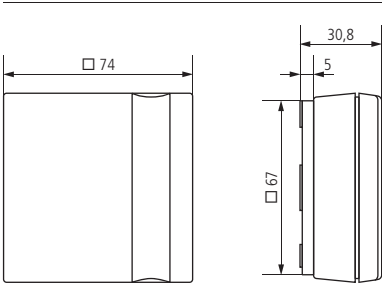
	RAMSES 712 KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Output configuration LED	Low current 1 mA (LED 1 mA types)
Interface extension max.	5 m
Ambient temperature	–5 °C ... +45 °C
Measuring range temperature	–20 °C ... +60 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Accessories



Temperature sensor
↳ Art.No.: 9070321
Details page 254

Scale drawings





Description

Common functions

- 4-way heating actuator MIX
- For controlling thermal actuators
- Silent semiconductor switch (triac)
- Up to 2 extension modules can be connected to a basic module.
- Can be combined with all MIX series devices
- Free combination of switches, dimming, blinds and heating control as well as binary inputs

- Maximum control variables for integrating boiler control
- For integrating boiler control
- It is possible to control a circulation pump directly via the actuator
- Up to 5 positioning actuators per channel
- Potential-free outputs 24–250 V AC
- Manual switch with On/Off/Bus settings (also without bus voltage)
- Switching status display for each channel

- With summer mode and valve protection
- Continuous or switching actuating value selectable

HMG 4 KNX

- Basic module MIX
- Can be upgraded to maximum of 12 channels

HME 4 KNX

- Extension module MIX
- For upgrading to maximum of 12 channels

Product selection

Type	Article number
HMG 4 KNX	4910210
HME 4 KNX	4910211

Technical data

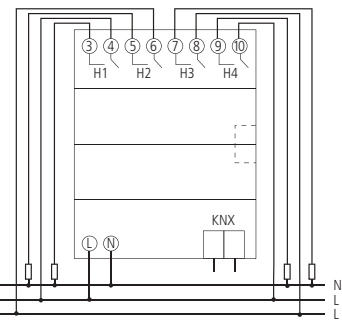
	HMG 4 KNX	HME 4 KNX
Operating voltage KNX	Bus voltage, ≤10 mA	–
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	1,5 W	
Width	4 modules	
Output	Triac, 0,5 A	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

Accessories

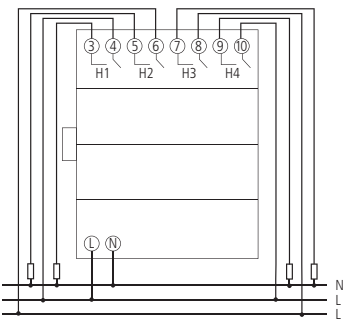
Actuator ALPHA 4 230 V
Details page 255

Actuator ALPHA 4 24 V
Details page 255

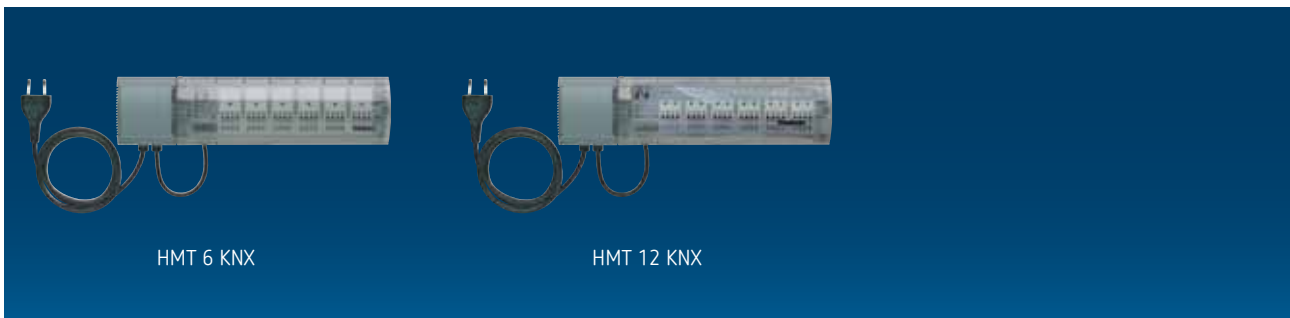
Connection diagrams



HMG 4 KNX



HME 4 KNX



Description

Common functions

- Heating actuator
- Can be installed directly on a wall or a rail in the heating circuit distributor
- Mains plug on transformer for easy installation
- Screwless terminal technology

- Integrated power supply for a maximum of 13 thermal actuators
- Silent semiconductor switch (triac)
- For integrating boiler control
- Continuous or switching actuating value selectable

HMT 6 KNX

- 6-way

HMT 12 KNX

- 12-way

Product selection

Type	Article number
HMT 6 KNX	4900273
HMT 12 KNX	4900274

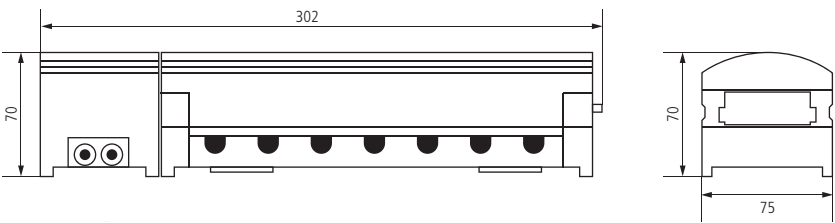
Technical data

	HMT 6 KNX	HMT 12 KNX
Operating voltage KNX	Bus voltage	
Operating voltage	230 V AC	
Stand-by consumption	4 W	
Frequency	50 – 60 Hz	
Number of channels	6	12
Output	Triac	
Fuse	T 2 A	
Ambient temperature	– 5 °C ... +50 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	

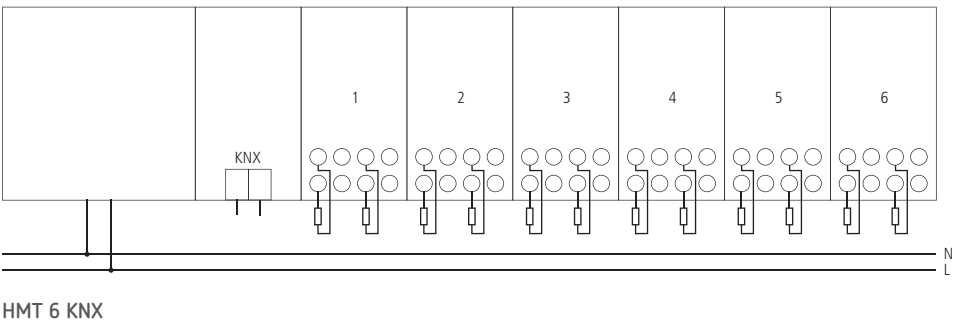
Accessories

Actuator ALPHA 4 24 V
Details page 255

Maßzeichnungen



Anschlussbeispiel





Description

Common functions

- Motorised actuator for heater valve or for controlling the heating valves
- Display of valve stroke
- Automatic valve stroke recognition
- 2 inputs for window contact, presence detector, remote sensor
- Simple installation by clicking onto valve adapter

- Can be used in heating circuit distributor
- Integrated bus coupling unit
- With summer mode and valve protection
- 2 different valve adapters included (VA 10, VA 78)

CHEOPS control KNX

- Independent room thermostat and integrated temperature sensor

- Manual operation possible via 2 keys on the device
- Display via LEDs (red/blue for hotter / colder)
- Configurable as: Heating control (continuous control),two stage heating, heating and cooling

CHEOPS drive KNX

- Without integrated control
- Display via LEDs (red)

Product selection

Type	Article number
CHEOPS control KNX	7329201
CHEOPS drive KNX	7319200

Technical data

	CHEOPS control KNX	CHEOPS drive KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Max. valve stroke	7,5 mm	
Controlling torque details	120 N	
Ambient temperature	0 °C ... +50 °C	
Dimensions	50 mm, 82 mm, 65 mm	
Protection class	III according to EN 60730-2-14	
Type of protection	IP 20	IP 21

Accessorie

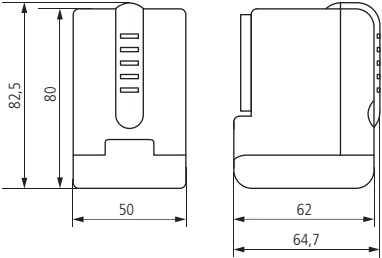


External temperature sensor 1
for CHEOPS control KNX
↳ Art.No.: 9070191
Details page 254



Valve adapter VA 80
↳ Art.No.: 9070437
Details page 255

Scale drawings





AMUN 716 KNX

Description

- CO₂ airquality sensor
- Measures CO₂ level, relative humidity and temperature
- Three independent, configurable thresholds for the CO₂ level and relative humidity
- A threshold for the temperature
- Actions can be carried out if thresholds are exceeded or not reached (send, priority, switching, value)
- Display of achieved threshold of CO₂ level and relative humidity through multi-coloured LEDs
- CO₂ setting range of 500–2250 ppm (thresholds)
- Relative humidity of 1 % to 100 %
- „Physical value“ object of 0–9999 ppm
- Power supply via KNX bus voltage, 230 V mains supply not required

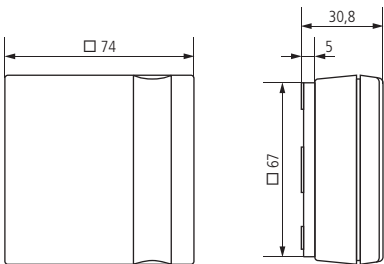
Product selection

Type	Article number
AMUN 716 KNX	7169200

Technical data

	AMUN 716 KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Measuring range CO ₂	300–9999 ppm
Measuring range temperature	0 °C ... +40 °C
Measuring range humidity	20–80 % rF linear 1–100 % rF relative
Ambient temperature	–5 °C ... +45 °C
Type of protection	IP 20
Protection class	III according to EN 60 730-1

Scale drawings



Home and building control

KNX, HVAC controller



RAMSES 713 FC KNX

Description

- Individual room thermostat fan coil
- For control of fan coil
- Continuous PI controller for heating and cooling
- Two rotary controls are included in delivery: an absolute scale (mounted) and 1 relative scale (enclosed)
- Rotary control can be limited mechanically or via parameters.
- Manual button for OFF, Auto, fan stages 1, 2, 3 operation modes
- 3 binary inputs for conventional switches/sensors (switching, dimming, blinds), also for external temperature sensor, window contact or presence signal
- LED (red) for heating mode, (blue) for cooling mode
- With integrated bus coupling unit

Product selection

Type	Article number
RAMSES 713 FC KNX	7139202

Technical data

	RAMSES 713 FC KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Ambient temperature	0 °C ... +50 °C
Measuring range temperature	0 °C ... +40 °C
Setting range temperature	+10 °C ... +28 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Accessorie



External temperature sensor 1

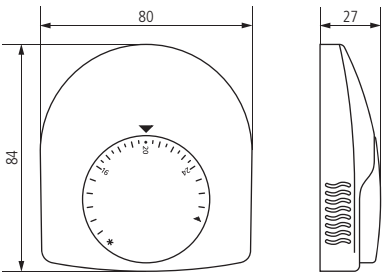
↳ Art.No.: 9070191
Details page 254



Temperature sensor

↳ Art.No.: 9070321
Details page 254

Scale drawings





Description

- Fan coil actuator
- For controlling fan coils
- For 2 and 4 pipe systems
- For up to three fan stages
- For 2-way and 3-way valves
- Additional relay for electrical heater or cooler bank
- Potential-free input for window contacts or temperature sensor
- Potential-free, condensation monitoring
- Display of operation status via 9 LEDs
- Manual operation on device (fan satges, switching between heating and cooling)
- Adjustment of setpoint value for cooling in relation to external temperature
- Potential-free switching contact for either cooler or heater bank
- With emergency program

Product selection

Type	Article number
FCA 1 KNX	4920200

Technical data

	FCA 1 KNX
Operating voltage KNX	Bus voltage, ≤10 mA
Operating voltage	220–230 V AC
Frequency	50–60 Hz
Stand-by consumption	1,9 W
Width	4 modules
Type of contact	Triac
Switching capacity additional relay	16 A
Switching capacity blower relay	8 A
Ambient temperature	–5 °C ... +45 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1

Accessories

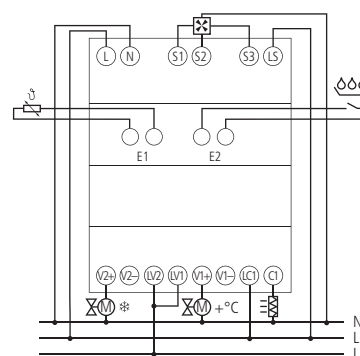


Temperature sensor

↳ Art.No.: 9070321

Details page 254

Connection diagrams





Description

- Motion detector (PIR)
- 2 channels
- For controlling lighting in outdoor areas
- Blended light measurement suitable for the control of fluorescent, incandescent and halogen lamps
- Adjustable sensor head
- Additional creep under protection via remote control
- Detection area can be limited using enclosed segments
- Settings per ETS: Brightness range and switch-off delay
- Set point adjustment of brightness either via object or potentiometer
- Following functions: Lighting ON/OFF, time functions, locking the motion detector
- Lighting control with adjustable light threshold value and adjustable switch-off delay
- Memorising of current brightness value possible via remote control
- Setting controls protected against manipulation
- Single-handed plug-in installation with captive screws

Product selection

Installation type	Type	Article number
Wall and ceiling installation	SPHINX 105-300 KNX	1059203

Technical data

	SPHINX 105-300 KNX
Operating voltage KNX	Bus voltage, <10 mA
Setting range brightness	0 – 650 lx
Light switch-off delay	1 s – 120 min
Ambient temperature	– 20 °C ... +55 °C
Protection class	II according to EN 60 335
Type of protection	IP 55

Accessories

SPHINX RC 105

Details page 252

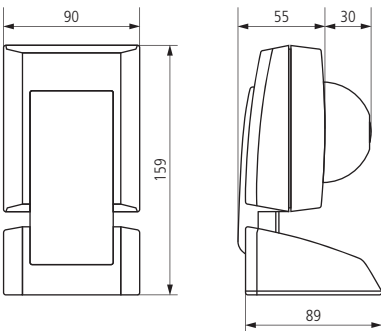
SPHINX RC 105 Pro

Details page 252

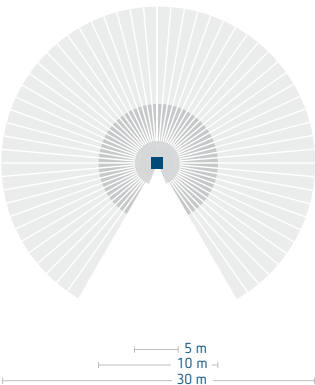
SPHINX corner angle

Details page 251

Scale drawings



Detection range



- Walking diagonally to the detector
 - Walking head on to the detector
 - Creep under protection
- Mounting height 2.5 m



Description

- Motion detector (PIR)
- Automatic lighting control based on presence and brightness
- Integrated bus coupling
- With constant light control
- Lighting control „movement-dependent only“ and „movement and brightness dependent“
- Continuous constant light control/movement-dependent
- Following functions: e.g. lighting ON/ OFF, shutters/blinds UP/DOWN, time functions (switch-off delay), locking the motion detector, dimming values, dimming UP/DOWN, Master/Slave function
- Flush fitting design (projects 4 mm from ceiling)

SPHINX 331 S KNX

- 1 channel

SPHINX 332 S KNX

- 2 channels
- Additional programming keys can activate the physical address via a programming magnet (if programming is being executed after installation)

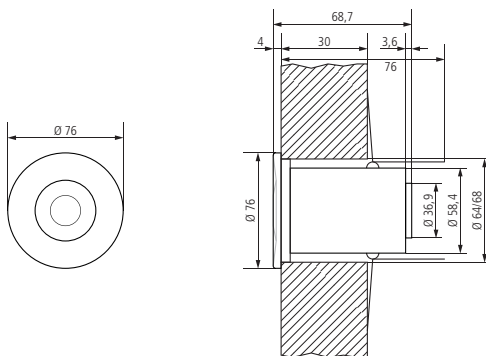
Product selection

Installation type	Type	Article number
Ceiling installation	SPHINX 331 S KNX	1079215
	SPHINX 332 S KNX	1079216

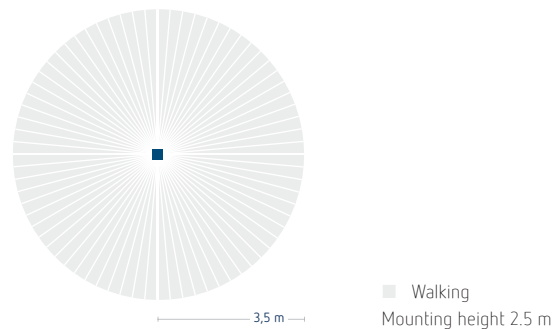
Technical data

	SPHINX 331 S KNX	SPHINX 332 S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Setting range brightness	0–700 lx	
Light switch-off delay	1 s–120 min	
Ambient temperature	–5 °C ... +45 °C	
Protection class	II according to EN 60 730-1	
Type of protection	IP 40 (when fitted)	

Scale drawings



Detection range



Home and building control

KNX, Presence detectors



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Square detection area allows accurate and simple planning
- Integrated bus coupling
- IP 54 for versatile use
- Outputs light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen / incandescent lamps and LEDs
- Switching or constant light control with stand-by function
- Adjustable sensitivity
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Short presence; Reduced switch-off delay time in case of a short presence
- Channel presence with switch-off delay and switch-on delay time and send values
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Channel brightness (Lux)
- Set brightness level via bus object
- Scene functionality (8-bit scenes)
- Selected parameters can be configured remotely using the SentoPro remote control. Parameter settings are made via ETS
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Parallel switching of several presence detectors (master-slave or master-master) possible
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

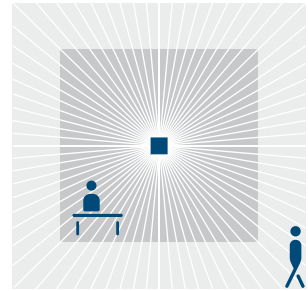
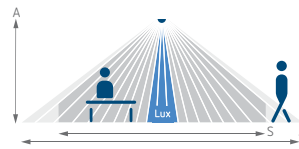
Installation type	Colour	Type	Article number
Ceiling installation	Pure white (similar to RAL 9010)	PresenceLight 360B-KNX WH	2009000
	Black (similar to RAL 9005)	PresenceLight 360B-KNX BK	2009812
	Silver (similar to RAL 9006)	PresenceLight 360B-KNX SR	2009813
	Additional colours available upon request		

Technical data

	PresenceLight 360B-KNX
Operating voltage KNX	Bus voltage, approx. 13 mA (17 mA LED on)
Recommended installation height	2 – 3 m
Setting range brightness	5 – 2000 lx
Light switch-off delay	30 s – 60 min
Stand-by time light	30 s – 60 min, on, inactive
Presence switch-off delay	10 s – 120 min
Switch-on delay presence	10 s – 30 min, inactive
Ambient temperature	–10 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m ² 4,5 m x 4,5 m ± 0,5 m	9 m ² 3 m x 3 m
2,5 m	36 m ² 6 m x 6 m ± 0,5 m	16 m ² 4 m x 4 m
3 m	49 m ² 7 m x 7 m ± 1 m	20 m ² 4,5 m x 4,5 m
3,5 m	64 m ² 8 m x 8 m ± 1 m	–



Accessories



Surface frame PresenceLight

↳ Art.No.: 9070513
Details page 248



SendoPro 868-A

↳ Art.No.: 9070675
Details page 250



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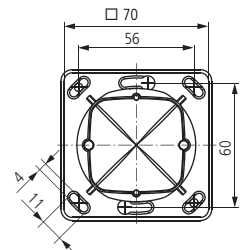
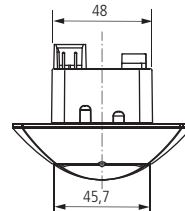
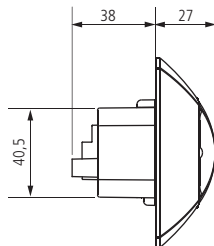
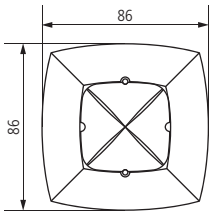
↳ Art.No.: 9070911
Details page 252



QuickSafe

↳ Art.No.: 9070531
Details page 250

Scale drawings





Description

Common functions

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Integrated bus coupling
- Outputs light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Switching or constant light control
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically

- The self-learning switch-off delay time adjusts to occupants' behavior
- The brightness output makes the light information available for visualization purposes
- Channel presence with switch-off delay and switch-on delay time
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Optional service remote control
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation

- Parallel switching of several presence detectors (master-slave or master-master) possible
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame Presence detector (PIR)

compact passage KNX

- Square detection area for corridors

compact passimo KNX

- Rectangular detection area for storage areas with clear demarcation vertically below the presence detector

Product selection

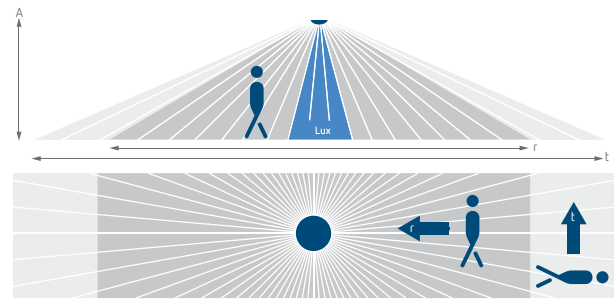
Installation type	Colour	Type	Article number
Ceiling installation	Pure white (similar to RAL 9010)	compact passage KNX	2019290
	Black (similar to RAL 9005)	compact passage KNX BK	2019803
	Silver (similar to RAL 9006)	compact passage KNX SR	2019804
	Pure white (similar to RAL 9010)	compact passimo KNX WH	2019280
	Black (similar to RAL 9005)	compact passimo KNX BK	2019809
	Silver (similar to RAL 9006)	compact passimo KNX SR	2019810
Additional colours available upon request			

Technical data

	compact passage KNX/compact passimo KNX
Operating voltage KNX	Bus voltage, approx. 8 mA (9,5 mA LED on)
Recommended installation height	2 – 3 m
Setting range brightness	10 – 1500 lx
Light switch-off delay	30 s – 20 min
Stand-by time light	0 s – 60 min
Presence switch-off delay	30 s – 120 min
Switch-on delay presence	0 s – 30 min
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

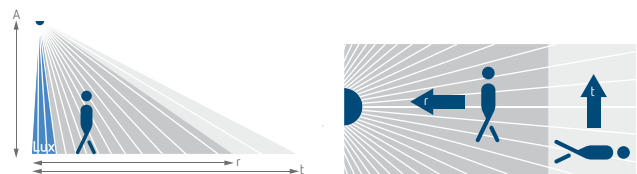
Detection range compact passage KNX (Rectangular)

Mounting height (A)	Diagonally (t)	Head on to (r)
2 m	56 m² 16 m x 3.5 m ± 1 m	56 m² 16 m x 3.5 m ± 1 m
2.5 m	88 m² 22 m x 4 m ± 1 m	72 m² 18 m x 4 m ± 1 m
3 m	135 m² 30 m x 4.5 m ± 1 m	90 m² 20 m x 4.5 m ± 1 m
3.5 m	150 m² 30 m x 5 m ± 1 m	100 m² 20 m x 5 m ± 1 m
4 m	150 m² 30 m x 5 m ± 2 m	100 m² 20 m x 5 m ± 2 m
4.5 m	150 m² 30 m x 5 m ± 2 m	100 m² 20 m x 5 m ± 2 m
5 m	150 m² 30 m x 5 m ± 2.5 m	100 m² 20 m x 5 m ± 2.5 m
6 m	150 m² 30 m x 5 m ± 2.5 m	100 m² 20 m x 5 m ± 2.5 m



Detection range compact passivo KNX (Rectangular)

Mounting height (A)	Diagonally (t)	Head on to (r)
2 m	28 m² 8 m x 3.5 m ± 1.5 m	28 m² 8 m x 3.5 m ± 1 m
2.5 m	44 m² 11 m x 4 m ± 1.5 m	36 m² 9 m x 4 m ± 1 m
3 m	68 m² 15 m x 4.5 m ± 1.5 m	45 m² 10 m x 4.5 m ± 1 m
3.5 m	75 m² 15 m x 5 m ± 1.5 m	50 m² 10 m x 5 m ± 1 m
4 m	75 m² 15 m x 5 m ± 2 m	50 m² 10 m x 5 m ± 2 m
4.5 m	75 m² 15 m x 5 m ± 2 m	50 m² 10 m x 5 m ± 2 m
5 m	75 m² 15 m x 5 m ± 2.5 m	50 m² 10 m x 5 m ± 2.5 m
6 m	75 m² 15 m x 5 m ± 2.5 m	50 m² 10 m x 5 m ± 2.5 m



Accessories



Surface frame compact

↳ Art.No.: 9070514

Details page 248



SendoPro 868-A

↳ Art.No.: 9070675

Details page 250



clic

↳ Art.No.: 9070515

Details page 251

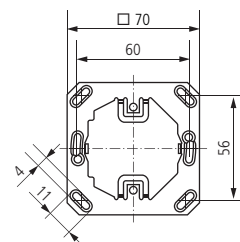
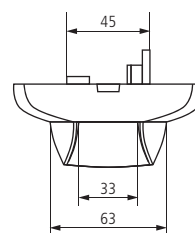
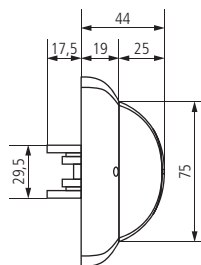
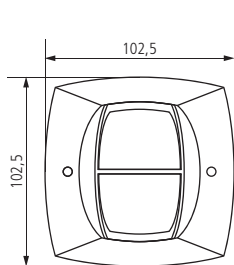


QuickSafe

↳ Art.No.: 9070531

Details page 250

Scale drawings



Home and building control

KNX, Presence detectors



Description

Common functions

- KNX Passive infrared presence detector for ceiling mounting
- Square detection range of 360° for safe and easy planning
- Mixed light measurement suitable for LEDs, fluorescent lamps (FL/PL/ESL) and halogen/incandescent lamps
- Can be used as fully or semi-automatic, switchable
- Switch or constant light control mode with stand-by function
- Dimmable lighting in switch mode with stand-by function
- Brightness switching value or set point value can be set in lux using parameters, on the device itself or via remote control
- Teaching in of the brightness switching value or the set point value

- Room correction factor setting for brightness measurement calibration
- Light time delay can be set using parameters, on the device itself or via remote control
- Switch on delay and time delay for presence can be set
- Detection sensitivity can be set
- Self-learning time delay
- Reduced time delay in the event of a shorter stay in the room (short presence)
- Scenario functions
- Extremely easy setting of energy saving characteristics with the new „eco plus“ function
- Test mode for checking function and detection range
- Parallel switching of several detectors in Master/Slave or Master/Master possible

- User remote control and management-remote control (optional)
- Room monitoring

thePrema P360 KNX UP

- 3 channel light and 2 channel presence
- 2 channel light C1, C2 with 2 light measurements and additional lighting channel C3 without brightness factor
- 2 presence channels can be set individually
- Adaptable 3 channel light measurement

thePrema S360 KNX UP

- 2 channel light and 2 channel presence
- 2 channel light C1, C2 with 1 light measurement
- 2 presence channels can be set individually with parallel offset
- Adaptable 1 channel light measurement

Product selection

Channels	Colour	Type	Article number
3 x light 2 x presence	White	thePrema P360 KNX UP WH	2079000
	Grey	thePrema P360 KNX UP GR	2079001 *
2 x light 2 x presence	White	thePrema S360 KNX UP WH	2079500
	Grey	thePrema S360 KNX UP GR	2079501 *
Additional colours available upon request			

* Available April 2014

Technical data

	thePrema P360 KNX UP	thePrema S360 KNX UP
Operating voltage KNX	Bus voltage, approx. 9 mA (13 mA LED on)	Bus voltage, approx. 8 mA (12 mA LED on)
Recommended installation height	2–3,5 m	2–3 m
Setting range brightness	5–3000 lx	
Light switch-off delay	30 s–60 min	
Presence switch-off delay	10 s–120 min	

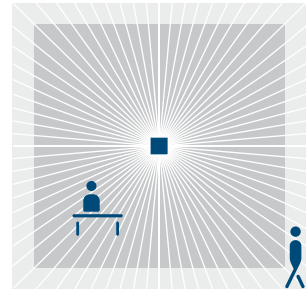
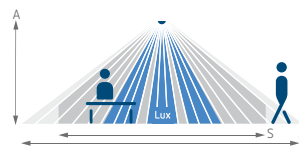
	thePrema P360 KNX UP	thePrema S360 KNX UP
Switch-on delay presence	10 s – 30 min, inactive	
Ambient temperature	0 °C ... +50 °C	
Type of protection	IP 20 (IP 40 when fitted)	

Detection range thePrema P360 KNX (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0,5 m	20 m² 4,5 m x 4,5 m
2,5 m	64 m² 8 m x 8 m ± 0,5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3,5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m

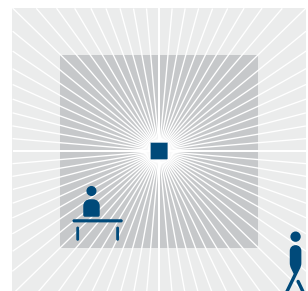
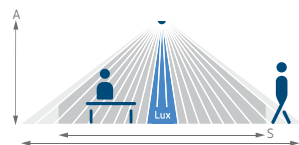
Suitable for mounting in large heights up to 10 m.

Please find detailed information in the technical documentation.



Detection range thePrema S360 KNX (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	20 m² 4 m x 4 m ± 0,5 m	9 m² 3 m x 3 m
2,5 m	36 m² 6 m x 6 m ± 0,5 m	16 m² 4 m x 4 m
3 m	49 m² 7 m x 8 m ± 1 m	25 m² 5 m x 5 m
3,5 m	64 m² 8 m x 8 m ± 1 m	–



Accessories



theSendo P

↳ Art.No.: 9070910
Details page 252



theSendo S

↳ Art.No.: 9070911
Details page 252



Ceiling installation box 73A

↳ Art.No.: 9070917
Details page 249

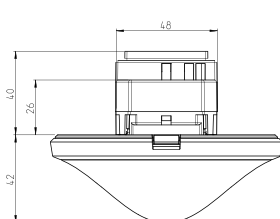
Surface frame 110A WH

Details page 248

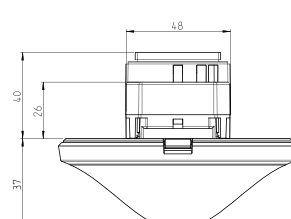
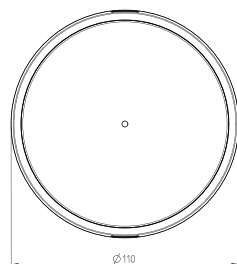
SendoPro 868-A

Details page 250

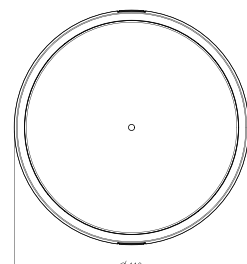
Scale drawings



thePrema P360 KNX



thePrema S360 KNX



** According to guarantee conditions, see www.theben.de/en/guarantee

Home and building control

KNX, Presence detectors



Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Flush design
- Square detection area allows accurate and simple planning
- Integrated bus coupling
- Outputs light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen / incandescent lamps and LEDs
- Switching or constant light control with stand-by function
- Adjustable sensitivity
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- The self-learning switch-off delay time adjusts to occupants' behavior
- Short presence; Reduced switch-off delay time in case of a short presence
- Channel presence with switch-off delay and switch-on delay time and send values
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Selected parameters can be configured remotely using the SentoPro remote control. Parameter settings are made via ETS
- Optional user remote control
- Test operation to check detection area, installation and brightness settings
- Parallel switching of several presence detectors (master-slave or master-master) possible
- Individual covers available on request

PlanoCentro EWH-A KNX

- For ceiling installation (false ceilings)
- With installation for false ceilings and cover

PlanoCentro UWH-A KNX

- For flush-mounting (concrete ceiling)
- With metal installation frame for screwed fixing in wooden ceilings or in flush-mounted sockets, incl. cover

Product selection

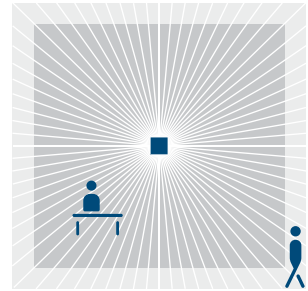
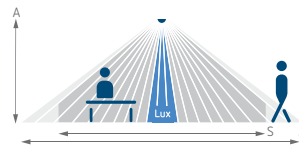
Installation type	Colour	Type	Article number
Ceiling mounting with mounting frame	Pure white (similar to RAL 9010)	PlanoCentro EWH-A KNX	2059102
	Black (similar to RAL 9005)	PlanoCentro EBK-A KNX	2059103
	Silver (similar to RAL 9006)	PlanoCentro ESR-A KNX	2059104
Ceiling installation (flush-mounting concrete)	Pure white (similar to RAL 9010)	PlanoCentro UWH-A KNX	2059202
	Black (similar to RAL 9005)	PlanoCentro UBK-A KNX	2059203
	Silver (similar to RAL 9006)	PlanoCentro USR-A KNX	2059204
Additional colours available upon request			

Technical data

	PlanoCentro KNX
Operating voltage KNX	Bus voltage, approx. 14 mA (18 mA LED on)
Recommended installation height	2,5–3,5 m
Setting range brightness	5–2000 lx
Light switch-off delay	30 s–60 min
Presence switch-off delay	10 s–120 min
Switch-on delay presence	10 s–30 min
Ambient temperature	0 °C ... +50 °C
Type of protection	IP 40 (when fitted)

Detection range (Square)

Mounting height (A)	Walking (T)	Sitting (S)
2 m	36 m² 6 m x 6 m ± 0,5 m	20 m² 4,5 m x 4,5 m
2,5 m	64 m² 8 m x 8 m ± 0,5 m	36 m² 6 m x 6 m
3 m	81 m² 9 m x 9 m ± 1 m	49 m² 7 m x 7 m
3,5 m	100 m² 10 m x 10 m ± 1 m	64 m² 8 m x 8 m



Accessories



PlanoSets
for PlanoCentro E
↳ Art.No.: 9070736
Details page 249



PlanoBox 1WH
for PlanoCentro U
↳ Art.No.: 9070731
Details page 249

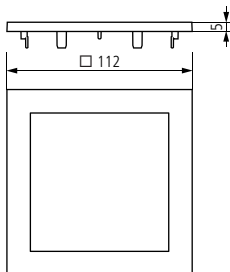


Junction casing,
115 x 115 x 100 mm
for PlanoCentro U
↳ Art.No.: 9070689
Details page 249

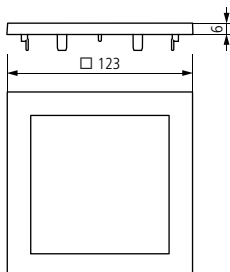
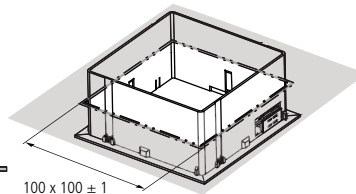
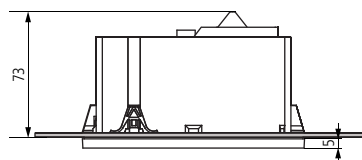
theSenda S
Details page 252

SendoPro 868-A
Details page 250

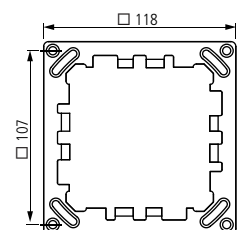
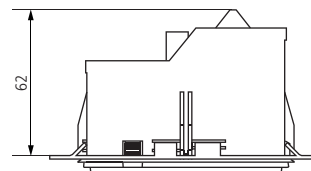
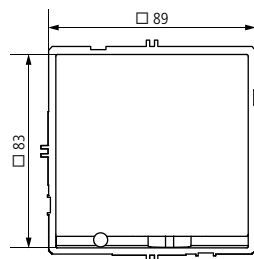
Scale drawings



PlanoCentro EWH-A KNX



PlanoCentro UWH-A KNX





PresenceLight 180B-KNX

Description

- Presence detector (PIR)
- Automatic control of lighting depending on presence and brightness
- Integrated bus coupling
- IP 54 for versatile use
- Outputs light for controlling one or two lighting groups
- Mixed light measurement, suitable for fluorescent lamps (FL/PL/ESL), halogen/ incandescent lamps and LEDs
- Switching or constant light control with stand-by function
- Adjustable sensitivity
- Choice of fully or semi automatic operation: In „Semi-automatic“ mode the light must be switched on manually and switches off automatically
- Short presence; Reduced switch-off delay time in case of a short presence
- Channel presence with switch-off delay and switch-on delay time and send values
- Function „monitoring“ with reduced sensitivity only to detect walking persons
- Channel brightness (Lux)
- Set brightness level via bus object
- Scene functionality (8-bit scenes)
- Selected parameters can be configured remotely using the SentoPro remote control. Parameter settings are made via ETS
- Optional user remote control
- Ready for use by ex-factory set items
- Test operation to check detection area and installation
- Parallel switching of several presence detectors (master-slave or master-master) possible
- Ceiling mounting in flush-mounted box
- Possibility of surface mounting by using a surface frame

Product selection

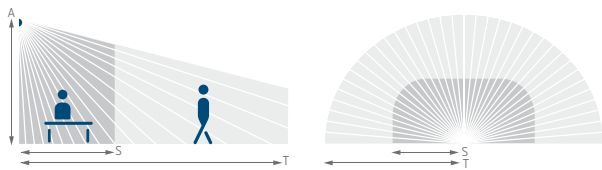
Installation type	Colour	Type	Article number
Wall installation	Pure white (similar to RAL 9010)	PresenceLight 180B-KNX WH	2009050
	Black (similar to RAL 9005)	PresenceLight 180B-KNX BK	2009815
	Silver (similar to RAL 9006)	PresenceLight 180B-KNX SR	2009816
Additional colours available upon request			

Technical data

	PresenceLight 180B-KNX
Operating voltage KNX	Bus voltage, approx. 13 mA (17 mA LED on)
Recommended installation height	1,6 – 2,2 m
Setting range brightness	5 – 2000 lx
Light switch-off delay	30 s – 60 min
Stand-by time light	30 s – 60 min, on, inactive
Presence switch-off delay	10 s – 120 min
Switch-on delay presence	10 s – 30 min, inactive
Ambient temperature	– 10 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Detection range (Semicircular)

Mounting height (A)	Walking (T)	Sitting (S)
2,2 m	100 m² 8 m	25 m² 7 m x 3,5 m



Accessories



Surface frame PresenceLight

↳ Art.No.: 9070513

Details page 248



SendoPro 868-A

↳ Art.No.: 9070675

Details page 250



theSenda S

↳ Art.No.: 9070911

Details page 252

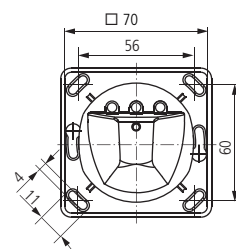
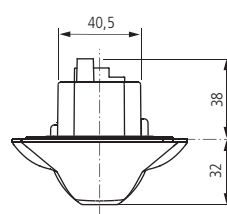
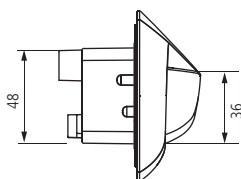
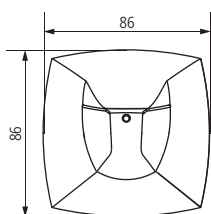


QuickSafe

↳ Art.No.: 9070531

Details page 250

Scale drawings





Meteodata 140 KNX

Description

Meteodata 140 KNX

- Self contained outdoor weather station
- For measuring wind, rain, brightness and temperature
- For fully automatic blinds and sun protection control with automatic adjustment of blinds according to position of the sun
- Rain sensor with integrated heating
- The weather station can also be operated without mains supply. The heating of the rain sensor will not function then

- Measurement and evaluation directly on device
- Sun protection for up to three facades via 3 integrated brightness sensors
- 4 additional threshold channels for connection of external KNX sensors
- 6 logic channels
- Display of weather data e.g. with VARIA 826 KNX multi-function display

Meteodata 140 GPS KNX

As Meteodata 140 KNX, but::

- Integrated GPS receiver
- Automatic calculation of elevation and azimuth
- The weather station can also be operated without mains supply. The GPS module and the rain sensor will not function then.

Product selection

Type	Article number
Meteodata 140 KNX	1409200
Meteodata 140 GPS KNX	1409203

Technical data

	Meteodata 140 KNX	Meteodata 140 GPS KNX
Operating voltage	110–230 V AC	
Operating voltage KNX	Bus voltage, ≤10 mA	
Measuring range brightness	1–100,000 lx	
Measuring range temperature	–30 °C ... +60 °C	
Measuring range wind speed	2–30 m/s	
Ambient temperature	–20 °C ... +55 °C	
Protection class	II	
Type of protection	IP 44	

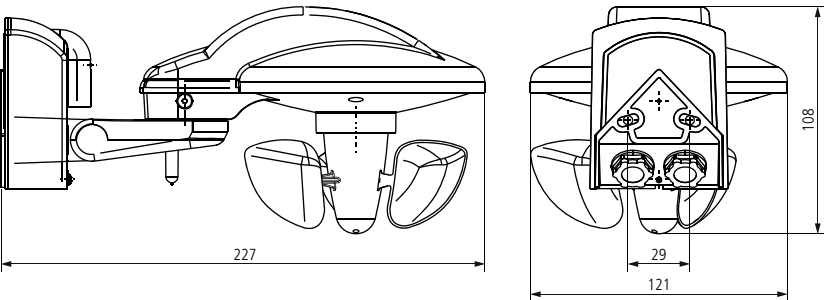
Accessories



Mast mounting weather station

↳ Art.No.: 9070380
Details page 256

Scale drawings





Description

Common functions

- Combination sensor
- Measurement and evaluation directly on device
- Sun protection for up to three facades possible (in combination with LUNA 133)

- Display of weather data, e.g. with VARIA multi-function display

Weather station KNX

- For measuring wind, rain, brightness and temperature
- Rain sensor with heater (with connection at 230 V AC)

Weather station basic KNX

- For measuring wind, brightness and temperature
- Without rain sensor
- 230 V AC connection not required
- Brightness range from 1 – 100,000 Lux
- Temperature range –20 °C to + 55 °C

Product selection

Type	Article number
Weather station KNX	1329201
Weather station basic KNX	1329205

Technical data

	Weather station KNX	Weather station basic KNX
Operating voltage	230 V AC	–
Operating voltage KNX	Bus voltage, ≤10 mA	
Measuring range brightness	1 – 100,000 lx	
Measuring range temperature	–20 °C ... +55 °C	
Measuring range wind speed	2 – 20 m/s	
Ambient temperature	–20 °C ... +55 °C	
Protection class	II according to EN 60 730-1	
Type of protection	IP 44	

Accessories

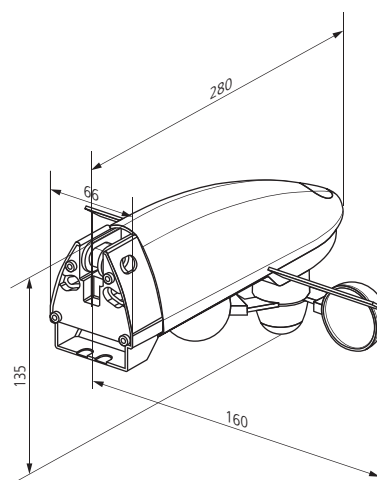


Mast mounting weather station

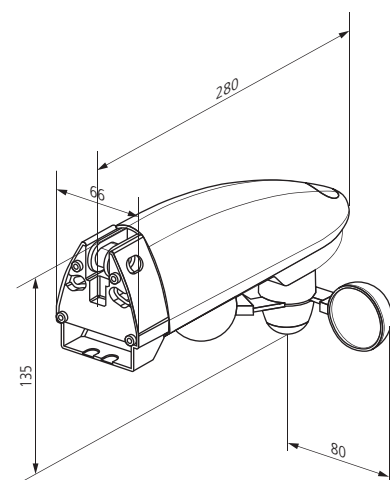
↳ Art.No.: 9070380

Details page 256

Scale drawings



Weather station KNX



Weather station basic KNX

Home and building control

KNX, Weather station, brightness sensor



Meteodata 139 KNX

Description

- Weather forecast receiver
- Receives weather data of the HKW via long-wave on hours of sunlight, probability of rain, wind speeds and temperatures (This service is not available in all European countries. Find out more at www.efr.de/en)
- Weather forecasts for the next 3 days are shown in 6 hour blocks
- In addition, weather scenarios such as „fine“, „cloudy“, „rainy“, among others, and storm warnings are also received
- Data can be visualised purely for information purposes
- By using the data, heating and shade can be controlled with foresight
- Exact time entry in the KNX system thanks to a time signal sent with the weather data

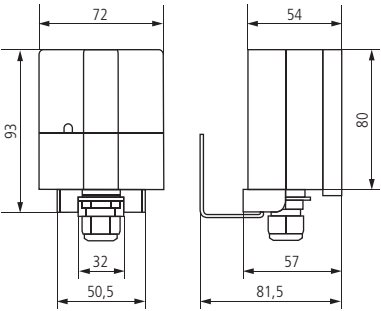
Product selection

Type	Article number
Meteodata 139 KNX	1399200

Technical data

	Meteodata 139 KNX
Operating voltage KNX	Bus voltage, ≤12 mA
Ambient temperature	–20 °C ... +55 °C
Protection class	III
Type of protection	IP 54

Scale drawings





LUNA 134 KNX

Description

- Light level controller
- External light sensor included in delivery
- For brightness-dependent controlling
- 10 channels
- 4 threshold values channels for connecting external KNX-sensors (e.g. temperature)
- 6 logic channels
- Up to 3 lights sensors can be connected
- Manual operation on device
- 4 keys for setting threshold and switch on/off delay
- DuoFix spring terminals
- Display back light (can be turned off)
- Thresholds can be shown or changed on display
- PIN coding

Product selection

Type	Article number
LUNA 134 KNX	1349200

Technical data

	LUNA 134 KNX
Operating voltage	110 – 240 V AC
Frequency	50 – 60 Hz
Operating voltage KNX	Bus voltage, ≤10 mA
Stand-by consumption	0,8 W
Measuring range brightness	1 – 100,000 lx
On/off switching delay	0 – 20 min
Width	3 modules
Ambient temperature	–5 °C ... +45 °C
Protection class	II
Type of protection	IP 20

Accessories



Digital surface-mounted light sensor

↳ Art.No.: 9070415

Details page 253



Digital flush-mounted light sensor

↳ Art.No.: 9070456

Details page 253

Home and building control

KNX, Weather station, brightness sensor



Description

- Brightness and temperature sensor
- For brightness and temperature dependent controlling in outdoor areas
- 5 freely configurable channels: 1 sun protection channel and 4 universal channels
- Sun protection channel with automated sun protection especially for blind, awning and shutter applications
- Universal channels allow linking of brightness and temperature
- Brightness range from 1 – 100,000 Lux
- Temperature range –20 °C to + 55 °C
- Learning object for brightness threshold

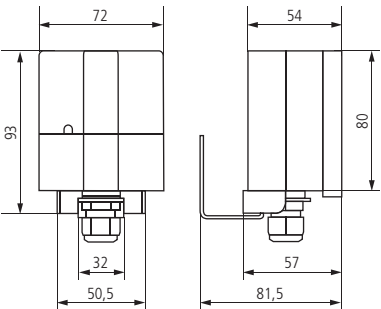
Product selection

Type	Article number
LUNA 131 S KNX	1319201

Technical data

	LUNA 131 S KNX
Operating voltage KNX	Bus voltage, ≤5 mA
Measuring range brightness	1 – 100,000 lx
Measuring range temperature	–20 °C ... +55 °C
Ambient temperature	–25 °C ... +55 °C
Type of protection	IP 54

Scale drawings





LUNA 133 KNX

Description

- Brightness sensor
- For brightness dependent controlling in outdoor areas
- Brightness range from 1 – 100,000 Lux
- Ideally combinable with the Theben weather stations for individual control of several facades

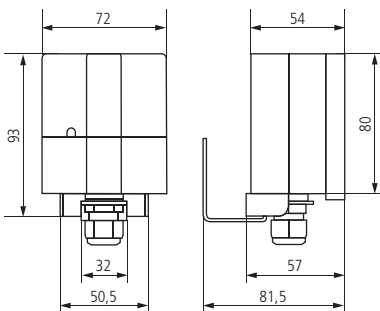
Product selection

Type	Article number
LUNA 133 KNX	1339200

Technical data

	LUNA 133 KNX
Operating voltage KNX	Bus voltage, ≤5 mA
Measuring range brightness	1 – 100,000 lx
Ambient temperature	– 25 °C ... +55 °C
Type of protection	IP 54

Scale drawings





TR 648 top2 RC KNX



TR 648 top2 RC-DCF KNX

Description

Common functions

- Digital time switch with yearly and astronomical time program
- 8 channels
- DuoFix spring terminals for 2 conductors each
- Text-oriented user guidance in display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 8 year power reserve (lithium battery)
- ON-OFF switching times
- Pulse program

- Cycle program
- Extensive yearly clock functions
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Switching preselection
- Permanent switching ON/OFF
- Count-down timer
- Integrated hour counter
- Holiday program
- 2 random programs
- Display backlight (can be turned off)
- PIN coding

- Automatic summer/winter time changeover
- Time and date synchronisation of other bus participants

TR 648 top2 RC KNX

- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS

TR 648 top2 RC-DCF KNX

- Time synchronisation via connection of external DCF antenna
- Can be operated without mains supply

Product selection

Type	Article number
TR 648 top2 RC KNX	6489212
TR 648 top2 RC-DCF KNX	6489210

Technical data

	TR 648 top2 RC KNX	TR 648 top2 RC-DCF KNX
Operating voltage KNX	Bus voltage, ≤ 12 mA	
Operating voltage	110–240 V AC	–
Frequency	50–60 Hz	–
Stand-by consumption	0,2 W	–
Width	3 modules	
Number of channels	8	
Number of memory locations	800	
Time accuracy at 25 °C	$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS	$\leq \pm 0,5$ s/day (quartz) or DCF77
Shortest switching times	1 s	
Display	LCD	
Ambient temperature	–5 °C ... +45 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	III according to EN 60 730-1

Accessories



Antenna top2 RC-GPS
for TR 648 top2 RC KNX
↳ Art.No.: 9070610
Details page 247



Antenna top2 RC-DCF
↳ Art.No.: 9070410
Details page 247

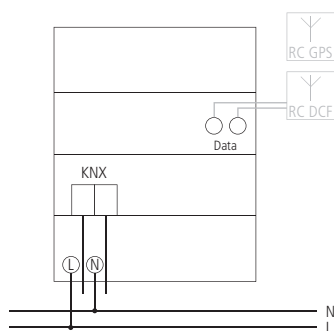


PC set OBELISK top2
↳ Art.No.: 9070409
Details page 247

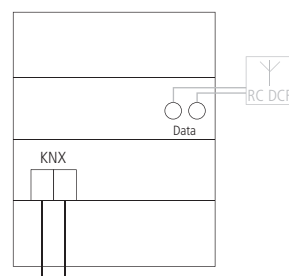


Memory card OBELISK top2
↳ Art.No.: 9070404
Details page 247

Connection diagrams



TR 648 top2 RC KNX



TR 648 top2 RC-DCF KNX



ZS 600 DCF KNX

Description

- Time transmitter for hour and date
- Can also be used with DCF77 antenna
- LED for status display DCF reception
- Integrated voltage supply for DCF77 antenna
- Preset time and date (CET or CEST)
- Automatic summer/winter time switchover

Product selection

Type	Article number
ZS 600 DCF KNX	6009200

Technical data

	ZS 600 DCF KNX
Operating voltage KNX	Bus voltage, ≤ 10 mA
Width	2 modules
Power reserve	10 years
Time accuracy at 25 °C	$\leq \pm 1$ s/day (quartz) or DCF77 synchronous
Ambient temperature	-10 °C ... +50 °C
Protection class	III according to EN 60 730-1
Type of protection	IP 20

Accessories

Antenna DCF77 KNX

↳ Art.No.: 9070271

Details page 247





DALI Gateway KNX

Description

- The DALI Gateway KNX serves as an interface between the the DALI and the KNX system
- The group-oriented DALI gateway (16 groups) is used to control operating devices equipped with a DALI interface (e.g. electronic ballasts, LED converters, transformers etc.)
- A maximum of 64 DALI members can be connected to a DALI output. Every DALI member automatically receives a random DALI address through the gateway
- The assignment of the individual DALI members in groups of lights is performed using a separate software tool. Every group of lights can be addressed and monitored via the KNX

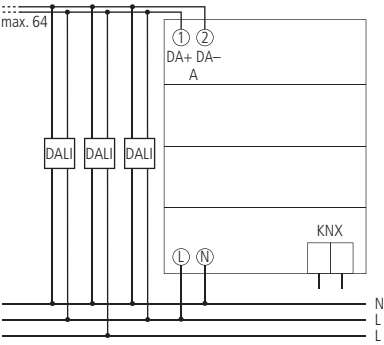
Product selection

Type	Article number
DALI Gateway KNX	9070722

Technical data

	DALI Gateway KNX
Operating voltage KNX	Bus voltage, <10 mA
Operating voltage	110 – 240 V AC/DC
Frequency	50 – 60 Hz
Width	4 modules
Ambient temperature	– 5 °C ... +45 °C
Protection class	II
Type of protection	IP 20

Connection diagrams





KNX-OT-Box

Description

- The KNT-OT-Box serves as an interface between a boiler with OT bus (bus system in heating and ventilation technology) and the KNX system (building system technology)
- This enables the bidirectional exchange of data between the OT boiler and the heat distribution via the KNX system (individual room control)
- Device and KNX bus module can be swapped independently of each other
- Removable KNX bus module
- Button for OT-test-program
- The following functions are available with the KNT OT box:
 - Customised flow control
 - Weather-compensation flow control
 - Control of domestic hot water
 - Energy optimization of domestic hot water with solar support
 - Legionella protection program
 - Screed drying program

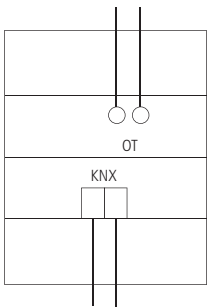
Product selection

Type	Article number
KNX-OT-Box	8559200

Technical data

	KNX-OT-Box
Operating voltage KNX	Bus voltage, ≤10 mA
Width	4 modules
Rated impulse with stand voltage	4 kV
Ambient temperature	0 °C ... +45 °C
Protection class	III
Type of protection	IP 20

Connection diagrams





Description

Common functions - Power-supplying and monitoring of the KNX system voltage - Reset key for 20 s bus reset - Continuous short-circuit protection	Power supply KNX 640 mA - 640 mA supply voltage - 30 V DC auxiliary supply Power supply 320 mA KNX - 320 mA supply voltage	Power supply KNX 160 mA - 160 mA supply voltage
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Product selection

Type	Article number
Power supply KNX 640 mA	9070364
Power supply 320 mA KNX	9070699
Power supply KNX 160 mA	9070701

Technical data

	Power supply KNX 640 mA	Power supply 320 mA KNX	Power supply KNX 160 mA
Operating voltage	230 V AC		
Frequency	50–60 Hz		
Width	6 modules	4 modules	
KNX output	1 line with integrated throttle drive		
Nominal voltage KNX	30 V DC, ± 2 V, SELV		
Nominal current KNX	640 mA	320 mA	160 mA
Ambient temperature	–5 °C ... +45 °C		
Protection class	II according to EN 60 730-1		
Type of protection	IP 20		



Interface USB KNX



Line coupler S KNX

Description

- Interface USB KNX**

 - USB interface
 - For communication between PC and the KNX equipment to be programmed
 - USB LED and KNX LED to display data transmission
 - Usable from ETS3
- Line coupler S KNX**

 - Line coupler
 - For connecting KNX lines or areas
 - Galvanic separation of the lines/areas
 - Bus terminals for main line and subordinate line
- Telegrams can be filtered (to reduce telegram traffic)
 - Can also be used as line amplifier (repeater)

Product selection

Type	Article number
Interface USB KNX	9070397
Line coupler S KNX	9070880

Technical data

	Interface USB KNX	Line coupler S KNX
Operating voltage KNX	Bus voltage, ≤10 mA	
Operating voltage	–	24 V DC
Width	2 modules	
Ambient temperature	–5 °C ... +45 °C	
Protection class	II according to EN 60 730-1	III
Type of protection	IP 20	



Description

OSIRIA 220 AR KNX, OSIRIA 230 AR KNX, OSIRIA 240 AR KNX

- KNX indoor clock, round, single-sided
- Black bar hour and minute hands, red second hand
- White metallic dial with black arabic numerals
- Impact-resistant plastic housing
- Matte border
- Flat, shock-resistant Plexiglas
- Diameter clock face: 250 mm/300 mm/400 mm

OSIRIA 230 SR KNX, OSIRIA 240 SR KNX

- KNX indoor clock, round, single-sided
- Black bar hour and minute hands, red second hand
- White metallic dial with black fine-line numerals
- Impact-resistant plastic housing
- Matte border
- Flat, shock-resistant Plexiglas
- Diameter clock face: 300 mm/400 mm

OSIRIA 241 BR KNX, OSIRIA 241 AR KNX

- KNX indoor clock, round, single-sided
- Silver metallic painted metallic housing (RAL 9006 whitealuminium)
- Black bar hour and minute hands, red second hand
- White metallic dial with black DIN bar numerals or arabic numbers
- Curved, shock-resistant Plexiglas
- Diameter clock face: 400 mm

Product selection

Dial dimensions	Housing material	Type of numerals	Type	Article number
Ø 250 mm	Plastic housing	Arabic numerals	OSIRIA 220 AR KNX	5009200
Ø 300 mm	Plastic housing	Arabic numerals	OSIRIA 230 AR KNX	5009210
		Fineline numerals	OSIRIA 230 SR KNX	5009211
Ø 400 mm	Plastic housing	Arabic numerals	OSIRIA 240 AR KNX	5009230
		Fineline numerals	OSIRIA 240 SR KNX	5009231
	Silver metallic painted metallic housing	Arabic numerals	OSIRIA 241 AR KNX	5009240
		Bar numerals	OSIRIA 241 BR KNX	5009241



OSIRIA 242 AR KNX, OSIRIA 242 SR KNX

OSIRIA 251 BQ KNX

OSIRIA 232 BQ KNX

Description

OSIRIA 242 AR KNX, OSIRIA 242 SR KNX

- KNX indoor clock, round, double-sided
- With wall or ceiling holder (150 mm)
- White dials
- Black Arabic numerals
- Black bar hour and minute hands, red second hand
- White painted metallic housing
- Shock-resistant plexiglass
- Diameter clock face: 400 mm

OSIRIA 251 BQ KNX

- KNX indoor clock, square, single-sided
- Wall clocks protected against thrown balls e.g. for sports halls, schools, etc.
- White metallic dial with black DIN bar numerals
- Black bar hour and minute hands, red second hand
- Single-faced, robust, white painted metallic housing (RAL 9016) for heavy-duty applications
- Laminated safety glass
- 3-point fastening resistant to being pried out
- Clock face: 400 mm x 400 mm

OSIRIA 232 BQ KNX

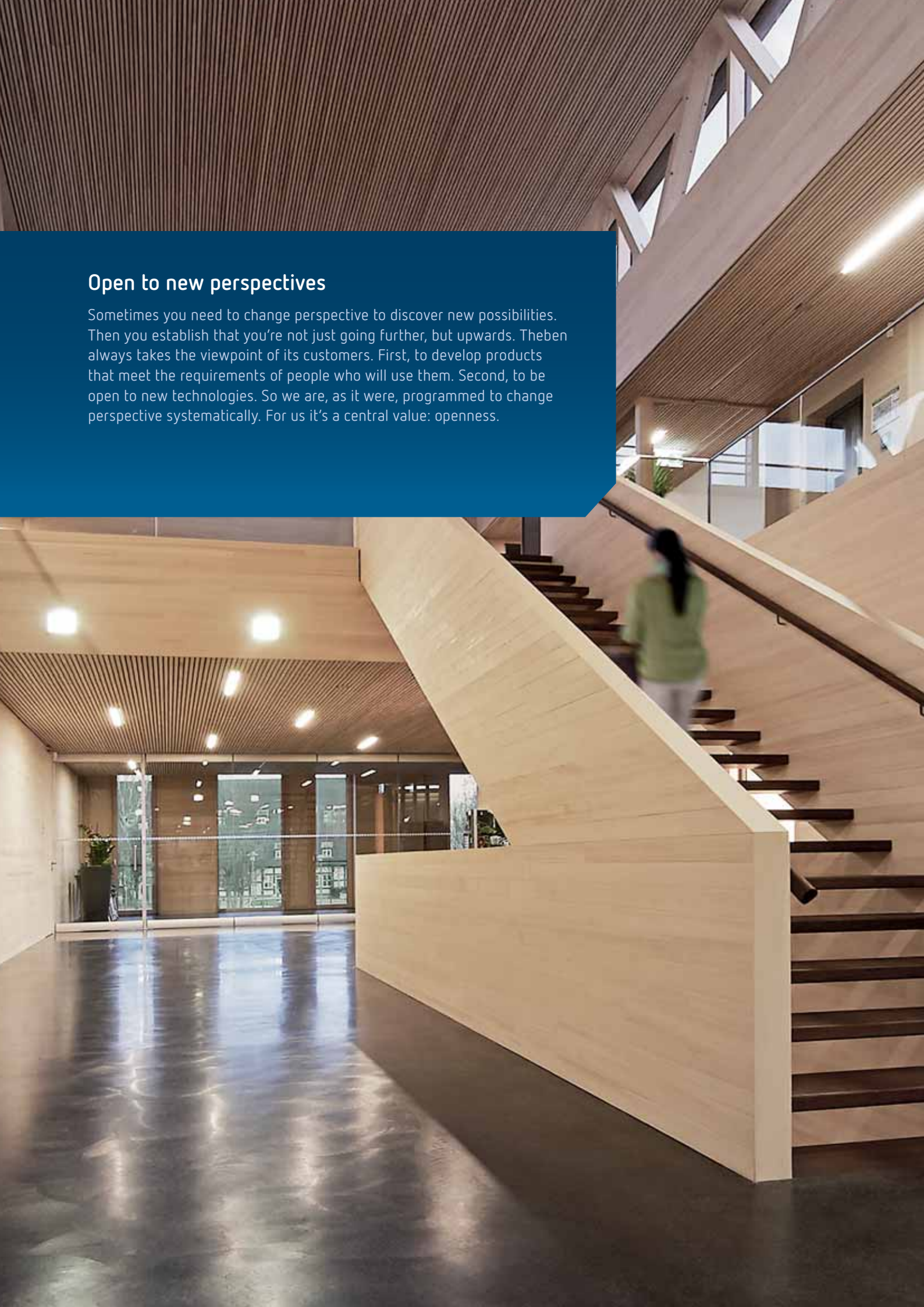
- KNX indoor clock, square, single-sided, for flush-mounted installation (for OP rooms)
- White metallic dial with black DIN bar numerals
- Black bar hour and minute hands, red second hand
- Stainless steel housing frame flush with tiles or wall V4A for wall installation (flush-mounted)
- Resistant to acids, cleaning agents and disinfectants; in the installed state protected against dust and water in acc. with protection rating IP 54 (DIN 40050)
- 3 mm flat mineral lens
- Clock face: 250 x 250 mm

Product selection

Dial dimensions	Housing material	Type of numerals	Type	Article number
Ø 400 mm	White painted metallic housing	Arabic numerals	OSIRIA 242 AR KNX	5009250
		Fineline numerals	OSIRIA 242 SR KNX	5009251
400 mm x 400 mm	White painted metallic housing	Bar numerals	OSIRIA 251 BQ KNX	5009252
250 mm x 250 mm	Rustproof high quality steel housing	Bar numerals	OSIRIA 232 BQ KNX	5009223

Open to new perspectives

Sometimes you need to change perspective to discover new possibilities. Then you establish that you're not just going further, but upwards. Theben always takes the viewpoint of its customers. First, to develop products that meet the requirements of people who will use them. Second, to be open to new technologies. So we are, as it were, programmed to change perspective systematically. For us it's a central value: openness.



Beschreibung	Type	Page
Switching		
	LUXOR switching	LUXOR 400 230
		LUXOR 404 230
		LUXOR 402 230
Dimming		
	LUXOR dimming	LUXOR 405 232
Shutter control		
	LUXOR shutter control	LUXOR 408 S 233
		LUXOR 409 S 233
Weather sensors		
	LUXOR weather sensors	LUXOR 411 234
		LUXOR 412 234
		LUXOR 413 234
Multifunction display		
	LUXOR multifunction display	LUXOR 426 236
Clock module		
	LUXOR clock module	LUXOR 414 238
LUXOR Sets		
	LUXOR sets	LUXOR Set 3 239
		LUXOR Set 4 239
		LUXOR Set 5 239



Description

Common functions

- Modular expandable system with central functions
- For switching electrical consumers
- Manual switch on device
- LEDs to display
- 2 time functions (staircase light function with switch-off warning, lag function)
- Upgradeable for up to 16 LUXOR modules
- Central ON/OFF, panic function and presence simulation
- LUXOR modules are connected via 2-wire bus cable (COM bus)
- Max. input cable length up to 100 m
- Input separate for connecting FI (RCD)
- Universal voltage input: 8–48 V AC/DC (e. g. for intercoms)
- Control for configuring central functions

LUXOR 400

- 4-channel basic device for lighting control
- Selector switch for configuring central functions
- Inputs U1 and I4 floating

LUXOR 404

- 4-channel upgrade device for lighting control
- Input I4 potential-free

LUXOR 402

- 2-channel upgrade device for lighting control

Product selection

Type	Article number
LUXOR 400	4000000
LUXOR 404	4040000
LUXOR 402	4020000

Technical data

	LUXOR 400	LUXOR 404	LUXOR 402
Operating voltage	230 V AC		
Frequency	50 Hz		
Width	4 modules		2,5 modules
Installation type	DIN rail		
Stand-by consumption	1,7 W	1,3 W	
Number of channels	4		2
Type of contact	NO contact		
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m		
Connection for COM	EIB / KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y / length up to 100 m		
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 6 A (at 250 V AC, $\cos \varphi = 0.6$)		
Ambient temperature	-10 °C ... +50 °C		
Type of protection	IP 20		
Protection class	II according to EN 60 730-1		

Accessories



Diode module

↳ Art.No.: 9070367

Details page 253

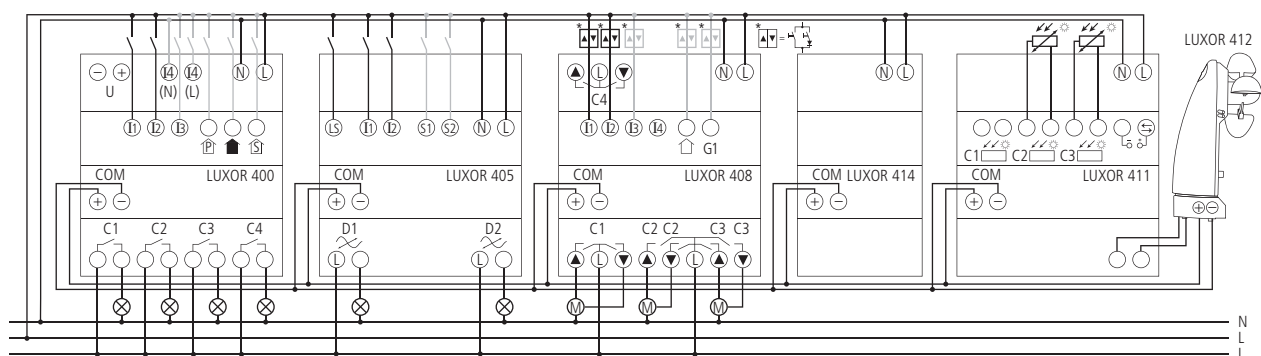


Front panel kit

↳ Art.No.: 9070001

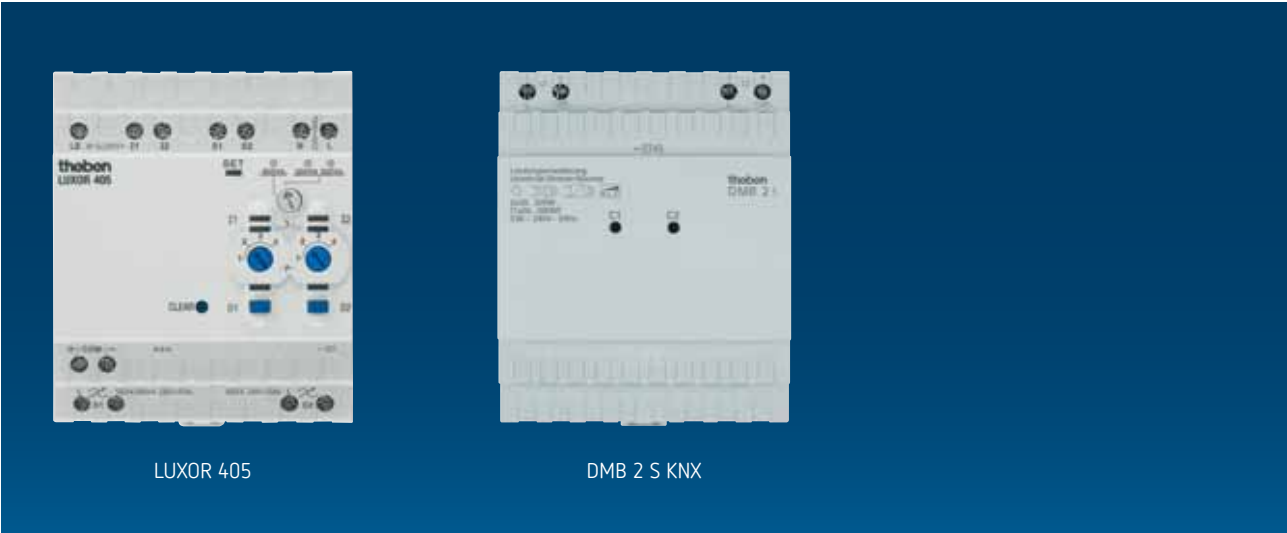
Details page 246

Connection diagrams



Home and building control

Living comfort control, Dimming, Dimming actuators



Description

LUXOR 405

- 2-channel universal dimmer
- For dimming electric consumers such as incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with conventional or electronic transformers
- 300 W/VA (for 2 channels) or 500 W/VA (for 1 channel)
- For conventional and electronic transformers
- Can also be used without basic module

- Manual switch on device
- LEDs to display
- Upgradeable for up to 16 LUXOR modules
- LUXOR modules are connected via 2-wire bus cable (COM bus)
- One additional input per channel for motion detector
- With overcurrent display
- Input for up to 3 light settings

- 4 program options for dimming response
- Central functions: Presence simulation, central OFF, panic function, central ON

DMB 2 S

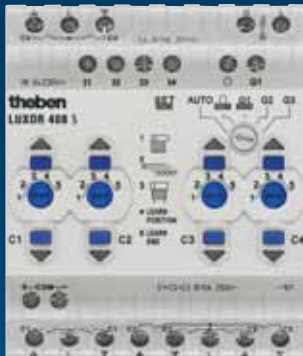
- 2 channel dimming output extension module „Dimmbooster“
- To double the output of basic and extension dimming actuators modules. e.g. to: 2 x 600 W/VA (2 channels) or 1 x 1,000 W/VA (1 channel)

Product selection

Type	Article number
LUXOR 405	4050000
DMB 2 S	4910272

Technical data

	LUXOR 405	DMB 2 S
Operating voltage	230 V AC	
Frequency	50 Hz	
Width	4 modules	
Installation type	DIN rail	
Stand-by consumption	1,0 W	0,8W
Number of channels	2	
Type of contact	Triacs	
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m	
Connection for COM	EIB / KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m	
Ambient temperature	-10 °C ... +50 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	



LUXOR 408 S



LUXOR 409 S

Description

Common functions

- For controlling shutters, awnings or blinds
- Separate control of 4 shutters with UP/DOWN/STOP
- Manual switch on device
- LEDs to display
- Controllable via standard shutter sensor
- Upgradeable for up to 16 LUXOR modules

- LUXOR modules are connected via 2-wire bus cable (COM bus)
- Setting option for panic function (via LUXOR 400)
- Storable intermediate position and turn for shading and ventilation
- 2 diode modules (9070367) supplied in delivery

LUXOR 408 S

- 4-channel roller shutter basic module
- Central UP/DOWN, panic 1 group
- With three group functions (individual, group and central control)
- Expandable via channel upgrade modules, time and sensor module and weather station

LUXOR 409 S

- 4-channel shutter upgrade module

Product selection

Type	Article number
LUXOR 408 S	4080100
LUXOR 409 S	4090100

Accessories



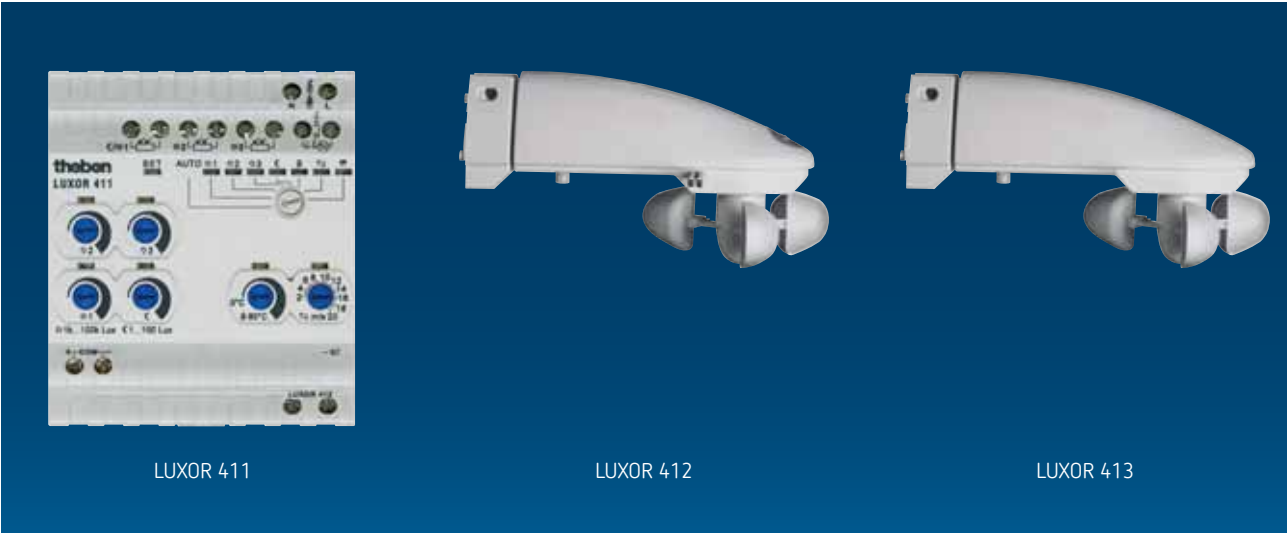
Diode module

↳ Art.No.: 9070367

Details page 253

Technical data

	LUXOR 408 S	LUXOR 409 S
Operating voltage	230 V AC	
Frequency	50 Hz	
Width	4 modules	
Installation type	DIN rail	
Stand-by consumption	1,3 W	
Number of channels	4	
Type of contact	NO contact	
Connecting cable	230 V phase-independent supply cable, max. cable length 100 m	
Connection for COM	EIB / KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m	
Switching capacity	6 A (at 250 V AC, cos φ = 1)	
Functions channels	Shutter, blinds and awning control	
Ambient temperature	-10 °C ... +50 °C	
Type of protection	IP 20	
Protection class	II according to EN 60 730-1	



Description

LUXOR 411

- Sensor module
- For controlling awnings, shutters and blinds in combination with LUXOR 412 and/or 413 and integrated light sensors
- Setting threshold values on device
- LEDs to display
- Max. input cable length of sensor line is 100 m
- LUXOR modules are connected via 2-wire bus cable (COM bus)

LUXOR 412

- Weather sensor
- For controlling awnings, shutters and blinds depending on rain, wind velocity, temperature and brightness in combination with sensor module LUXOR 411
- Optional connection of up to two additional light sensors for additional facades
- Supply voltage via COM-Bus

LUXOR 413

- Wind sensor
- For controlling awnings, shutters and blinds depending on wind velocity in combination with sensor module LUXOR 411
- Extra power unit required
- Optional connection of up to three light sensors for 3 facades with automatic sun protection function

Product selection

Type	Article number
LUXOR 411	4110000
LUXOR 412	4120000
LUXOR 413	4130000

Technical data

	LUXOR 411	LUXOR 412	LUXOR 413
Operating voltage	230 V AC	COM-Bus	24 V DC
Frequency	50 Hz	–	
Width	4 modules	–	
Stand-by consumption	1,1 W	–	
Installation type	DIN rail	Wall installation or mast bracket	
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m		
Setting range twilight value	1 – 100 lx		–
Setting range sun protection	1000 – 100000 lx		–
Measuring range wind speed	2 – 20 m/s		
Measuring range temperature	0 °C ... +60 °C		–
Ambient temperature	– 10 °C ... +50 °C	– 20 °C ... +55 °C	
Type of protection	IP 20	IP 44	IP 43
Protection class	II according to EN 60 730-1		III according to EN 60 730-1

Accessories



Surface-mounted light sensor
for LUXOR 411, LUXOR 412
↳ Art.No.: 9070008
Details page 253

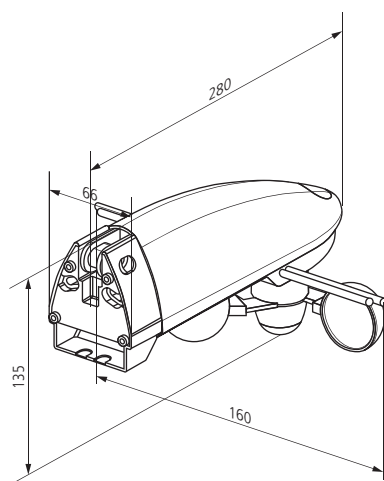


Mast mounting weather station
for LUXOR 412, LUXOR 413
↳ Art.No.: 9070380
Details page 256

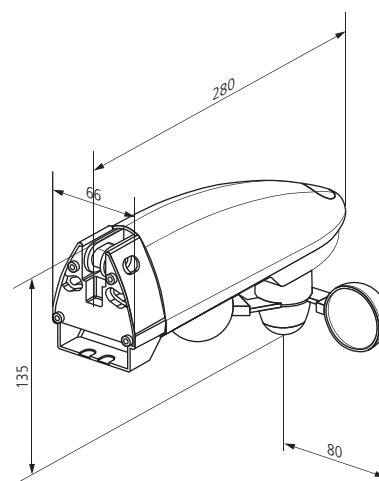


Power unit 24 V DC
for LUXOR 413
↳ Art.No.: 9079330
Details page 256

Scale drawings



LUXOR 412



LUXOR 413

Home and building control

Living comfort control, Multifunction display



LUXOR 426

Description

- Central display and control unit for the LUXOR system
- Time, weekday, date as well as central and automatic functions are displayed
- Current weather conditions are displayed as well as min./max. values
- Display with back-lighting
- Favourite sites can be selected from 6 pages
- 8 channel time switch
- Heating temperature reduction in combination with a RAMSES room thermostat
- Manual switching on the device for central and group functions as well as manual and automatic mode
- Daily and weekly programs
- Astronomical program (dependent on sunrise and sunset)
- Freely programmable switching times as well as pre-programmed astronomical switching times
- Offset setting ± 120 min
- Easy location input via city list
- Individual link of time switch channels with the outputs
- Time controlled positioning of drives (LUXOR 408 S/409 S) as well as transmission of dimming values (LUXOR 405) as percentage values
- Blocking times for suppression of brightness or twilight signals from sensor module (LUXOR 411)
- Astronomical blocking times for time shifts for moving shutters/awnings up and down
- Automatic changeover summer/winter time
- PIN code
- Installation in flush-mounted socket

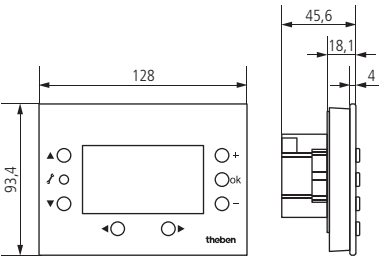
Product selection

Type	Article number
LUXOR 426	4260000

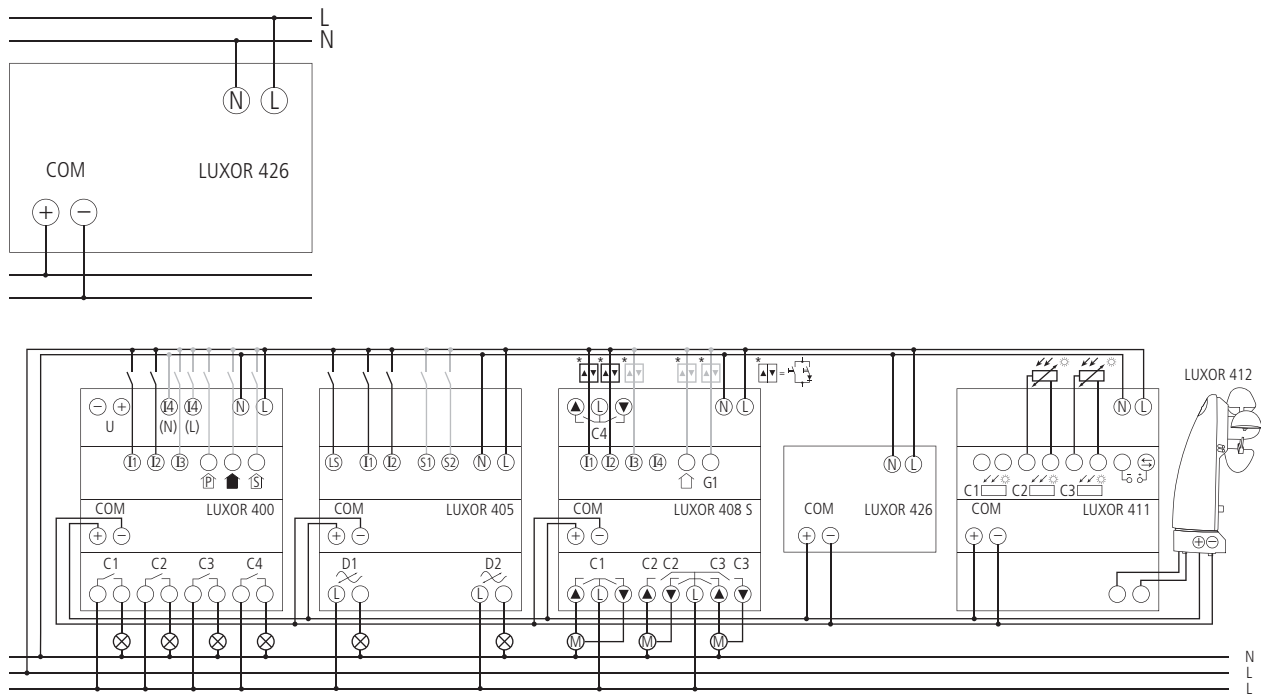
Technical data

	LUXOR 426
Operating voltage	230 V AC
Frequency	50 Hz
Installation type	Wall installation or on flush-mounted socket
Stand-by consumption	1,1 W
Number of channels	8
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m
Number of memory locations	350
Program	Weekly program
Ambient temperature	-5 °C ... +45 °C
Type of protection	IP 20
Protection class	II according to EN 60 335

Scale drawings



Scale drawings



Home and building control

Living comfort control, Clock module



LUXOR 414

Description

- 8-channel time switch
- For control of any outputs in LUXOR system, e.g. shutters, blinds and awnings or for lighting control
- Manual switch on device
- Daily and weekly programs
- Astronomical program (dependent on sunrise and sunset)
- Freely programmable switching times as well as pre-programmed astronomical switching times
- Easy location input via city list
- Individual link of time switch channels with the outputs via selector switch
- Positioning of drives (LUXOR 408/ LUXOR 409) as well as transmission of dimming values (LUXOR 405) as percentage values
- Blocking times for suppression of brightness or twilight signals from sensor module (LUXOR 411)
- Astronomical blocking times for time shifts for moving shutters/awnings up and down
- Automatic summer/winter time changeover
- LUXOR modules are connected via 2-wire bus cable (COM bus)

Product selection

Type	Article number
LUXOR 414	4140000

Technical data

	LUXOR 414
Operating voltage	230 V AC
Frequency	50 Hz
Width	2,5 modules
Installation type	DIN rail
Stand-by consumption	1,3 W
Number of channels	8
Connection for COM	EIB/KNX bus line type YCYM or Y(ST)Y or communication line J-Y(ST)Y/length up to 100 m
Number of memory locations	128
Ambient temperature	-10 °C ... +50 °C
Type of protection	IP 20
Protection class	II according to EN 60 730-1



Description

LUXOR Set 3

- Set for the comfortable single family house with 10 separate lighting units and 4 time functions
- Additional dimming channels e. g. for living room and bedrooms
- This set also offers the advantage of central functions
- Suitable for 10 separate lighting units, 4 x time/switch and 4 x switch, 2 x dimming
- Consisting of: Box, 1 LUXOR 400, 1 LUXOR 404, 1 LUXOR 405

LUXOR Set 4

- Set for shutter and blind controlling
- 8 drives can be manually or automatically controlled according to time program or sunrise or sunset
- Blocking times for time shifts for moving shutters/awnings up and down in the early morning
- Additional comfortable central functions
- Suitable for shutter and blind 8 drives, 8 drives and 8 time channels with weekly program with astronomical function
- Consisting of: Box, 1 LUXOR 408 S, 1 LUXOR 409 S, 1 LUXOR 414

LUXOR Set 5

- Set for shutter and blind controlling
- 8 drives can be manually or automatically controlled according to time program or sunrise or sunset
- Blocking times for time shifts for moving shutters/awnings up and down in the early morning
- Additional comfortable central functions
- Suitable for shutter and blind 8 drives, 8 drives and 8 time channels with weekly program with astronomical function
- Consisting of: Box, 1 LUXOR 408 S, 1 LUXOR 409 S, 1 LUXOR 426

Product selection

Type	Article number
LUXOR Set 3	4990003
LUXOR Set 4	4990004
LUXOR Set 5	4990005

Meet people on an equal footing

Theben is present in more than 60 countries throughout the world. We are successfully active in numerous markets. It's not just our persuasive product portfolio that accounts for that. What is decisive is the attitude of people who meet one another on an equal footing and agree about challenges that must be overcome – by solutions that offer a concrete benefit. This openness to markets and people we call open-mindedness.



	Number of inputs	Number of outputs	Operating voltage	Type	Page
Controller					
	6	4	100–240 V AC	PHARAO-II 10 (AC)	242
			24 V DC	PHARAO-II 11 (DC)	242
	8	6	100–240 V AC	PHARAO-II 14 (AC)	242
			24 V DC	PHARAO-II 15 (DC)	242
	15	9	100–240 V AC	PHARAO-II 24 (AC)	242
			24 V DC	PHARAO-II 25 (DC)	242
	–	4	220–240 V AC	PHARAO-II extension 4AR (AC)	242
		–	24 V DC	LUNA 131 DDC	244
	1	1	100–240 V AC	SUD 228 II	244



Description

Common functions

- Small control unit for house automation and industry
- Programming directly on device via eight buttons without interface cable
- Display back light with operator guidance in clear text
- Input and output switching status display
- Lifespan of relay contacts is 100,000 switching cycles at nominal current
- Assignment of programmed functions on front keys
- Internal EEPROM memory for max. 200 function blocks (5,000 bytes)
- Optional plug-in EEPROM for program transfer or dual programming of internal and plugged-in EEPROM
- 3-level password protection
- Realtime year clock with 1,000 switching times
- Graphical programming software for Windows 95/98/NT/2000/ME/XP with detailed online Help documentation

- Remote control/remote monitoring possible via modem/GSM modem
- Transmission of SMS, email or fax

PHARAO-II 10 (AC)

- Small control unit for house automation and industry
- Operating voltage 100–240 V AC
- 6 digital inputs, e.g. for keys, brightness and temperature switches
- 4 relay outputs

PHARAO-II 11 (DC)

- Operating voltage 24 V DC
- 6 digital/analogue inputs
- 4 relay outputs

PHARAO-II 14 (AC)

- Operating voltage 100–240 V AC
- 8 digital inputs, e.g. for keys, brightness and temperature switches
- 6 relay outputs

PHARAO-II 15 (DC)

- Operating voltage 24 V DC
- 8 digital/analogue inputs
- 6 relay outputs

PHARAO-II 24 (AC)

- Operating voltage 100–240 V AC
- 15 digital inputs, e.g. for keys, brightness and temperature switches
- 9 relay outputs

PHARAO-II 25 (DC)

- Operating voltage 24 V DC
- 15 inputs, including 8 analogue/digital options
- 9 relay outputs

PHARAO-II extension 4AR (AC)

- 4 channel relay output extension
- For PHARAO-II 14 (AC), PHARAO-II 24 (AC)

Product selection

Number of inputs	Number of outputs	Operating voltage	Type	Article number
6	4	100–240 V AC	PHARAO-II 10 (AC)	5750210
		24 V DC	PHARAO-II 11 (DC)	5759211
8	6	100–240 V AC	PHARAO-II 14 (AC)	5750014
		24 V DC	PHARAO-II 15 (DC)	5759015
15	9	100–240 V AC	PHARAO-II 24 (AC)	5750024
		24 V DC	PHARAO-II 25 (DC)	5759025
–	4	220–240 V AC	PHARAO-II extension 4AR (AC)	5759102

Technical data

	PHARAO-II 10 (AC)	PHARAO-II 11 (DC)	PHARAO-II 14 (AC)	PHARAO-II 15 (DC)	PHARAO-II 24 (AC)	PHARAO-II 25 (DC)	PHARAO-II extension 4AR (AC)
Operating voltage	100–240 V AC	24 V DC	100–240 V AC	24 V DC	100–240 V AC	24 V DC	220–240 V AC
Frequency	50–60 Hz	–	50–60 Hz	–	50–60 Hz	–	50–60 Hz
Stand-by consumption	1,2 W	0,4 W	1,3 W	0,4 W	1,3 W	0,4 W	–
Width	4 modules		7 modules				–
Installation type	DIN rail						Encajable
Type of contact	NO contact						
Switching capacity	8 A (at 250 V AC, cos φ = 1), 373 VA (at 250 V AC, inductive load)				4 x 8 A (250 V AC, cos φ = 1), inductive load max. 373 VA, 5 x 2 A (250 V AC, cos f = φ), inductive load max. 93 VA		2 A (at 250 V AC, cos φ = 1)
Power reserve	20 days						–
Time accuracy at 25 °C	≤ ± 5 s/day (quartz)						–
Input frequency	5 Hz	20 Hz					–
Ambient temperature	–25 °C ... +55 °C						–
Type of protection	IP 20						–
Protection class	II according to EN 60 730-1						–

Accessories



Power unit 24 V DC

↳ Art.No.: 9079330

Details page 256



Memory module PHARAO-II

↳ Art.No.: 9070328

Details page 256

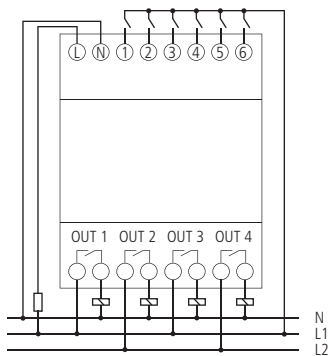
GSM cable PHARAO-II

Details page 256

Programming cable PHARAO

Details page 257

Connection diagrams



PHARAO-II 10 (AC)



Description

LUNA 131 DDC

- Combination sensor with analogue output signal
- Can be used for brightness and temperature measurement
- Each of the two measurement outputs represents a 0–10 V analogue output signal
- The sensor can be connected directly to the analogue inputs of the PHARAO devices (24 V DC)
- Controls and regulators can be programmed with the signal converter, range compare and Schmitt trigger function modules
- External 24 V DC power unit required

SUD 228 II

- Charging switch for electric storage heaters
- Adjustable charging time and backward control
- If the ripple control receiver or the tariff time switch have been released for nighttime off-peak tariff, the device starts the charging program for storage heating
- Charging time can be set from 0–9 hours
- Onscreen display of charging time which is repeated every 24 hours
- Backward control stops charging process at the end of off-peak period
- Manual switch can be connected for daytime charging

Product selection

Type	Article number
LUNA 131 DDC	1319700
SUD 228 II	2280577

Technical data

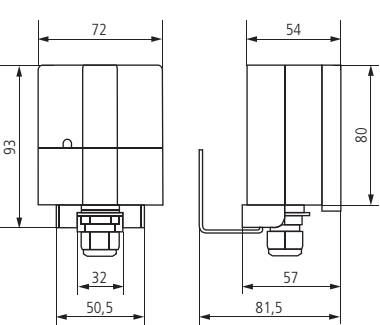
	LUNA 131 DDC	SUD 228 II
Operating voltage	24 V DC	100 – 240 V AC
Frequency	–	50 – 60 Hz
Stand-by consumption	–	1,2 W
Width	–	4 modules
Installation type	Surface-mounted	DIN rail
Type of contact	–	NO contact
Switching capacity	–	8 A (at 250 V AC, $\cos \varphi = 1$)
Measuring range brightness	10 – 50000 lx	–
Measuring range temperature	–30 °C ... +70 °C	–
Ambient temperature	–30 °C ... +70 °C	0 °C ... +55 °C
Type of protection	IP 54	IP 20
Protection class	–	II according to EN 60 730-1

Accessories



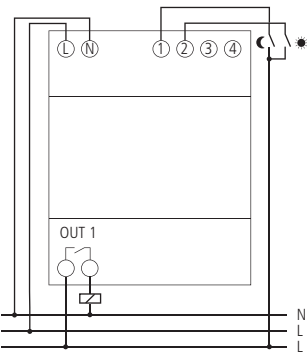
Power unit 24 V DC
↳ Art.No.: 9079330
Details page 256

Scale drawings



LUNA 131 DDC

Connection diagrams



SUD 228 II

Accessories

	Description	Suitable for	Type	Article number
	Wall mounting kit 17,5 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 1 module	Wall mounting kit 17,5 mm	9070065
	Wall mounting kit 35 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 2 modules	Wall mounting kit 35 mm	9070064
	Wall mounting kit 52,5 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 3 modules	Wall mounting kit 52,5 mm	9070050
	Wall mounting kit 70 mm - Terminal box cover plate for assembly, sealable	- All DIN rail installation devices - width 4 modules	Wall mounting kit 70 mm	9070049
	Terminal cover 52,5 mm - Terminal box cover plate for assembly, sealable	- SUL 188 g - SUL 188 hw	Terminal cover 52,5 mm	9070061
	Front panel kit - The front panel installation set is suitable for Theben distributor installation devices of 17,5 to 107,5 mm width - Walls from 1 to 5 mm thick	- All DIN rail installation devices	Front panel kit	9070001
	Snap-on mounting 72 x 72 - Quick fastening for 35 mm DIN-rail	- All devices for front panel/wall installation	Snap-on mounting 72 x 72	9070071
	Multiple contact strip - Multiple contact strip for soldering to PCBs	- TR 684 top2	Multiple contact strip	9075141

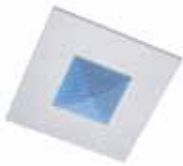
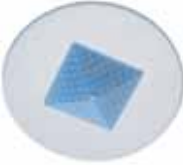
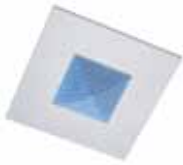
	Description	Suitable for	Type	Article number
	PC set OBELISK top2 - Switching programs created on the PC by means of the convenient OBELISK top2 software can be transferred via USB interface to the OBELISK top2 memory card and from the card to the time switch and vice versa. Thus no PC or laptop is required on-site. Programming and the program printout can be done comfortably from the desk - For Windows XP/Vista/7/8 (32/64 Bit) - Consisting of: Memory card, USB plug adapter, software - Updates of existing OBELISK top2 software are available as free downloads at www.theben.de	- TR top2 - LUNA top2 - SELEKTA top2 - TR top2 KNX	PC set OBELISK top2	9070409
	Memory card OBELISK top2 - Individual memory card	- TR top2 - LUNA top2 - SELEKTA top2 - TR top2 KNX	Memory card OBELISK top2	9070404
	Antenna DCF77 KNX - Radio control via antenna with KNX time switches: To ensure good reception, do not install the antenna in cellars or on distribution boxes. Connection is made via separate 2-wire, unscreened high-voltage power cable (max. 100 m), up to 10 Theben top2 RC devices can be connected. Polarity, short-circuit and interruption of the antenna circuit are each visually displayed to help with installation.	- ZS 600 DCF KNX	Antenna DCF77 KNX	9070271
	Antenna top2 RC-DCF - Radio control via antenna with top2 RC devices: To ensure good reception, do not install the antenna in cellars or on distribution boxes. Connection is made via separate 2-wire, unscreened high-voltage power cable (max. 100 m), up to 10 Theben top2 RC devices can be connected. Polarity, short-circuit and interruption of the antenna circuit are each visually displayed to help with installation.	- TR top2 RC - LUNA top2 RC - SELEKTA top2 RC - TR top2 KNX	Antenna top2 RC-DCF	9070410
	Antenna top2 RC-GPS - Worldwide time synchronisation and positioning via receiving GPS satellite signal - The antenna is connected by a 2 wire cable (max. 100 m) to Theben top2 RC devices (up to 5 devices can be connected depending on device type) - A top2 GPS power unit (item number 907 0 892) is also required when connecting to TR 611 top2 RC, LUNA 121 top2 RC, LUNA 122 top2 RC or SELEKTA 171 top2 RC devices - No additional power unit is required when connecting to TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC devices or several devices to one antenna - Positioning is only possible when connecting to TR 641 top2 RC, TR 642 top2 RC, TR 644 top2 RC and SELEKTA 171 top2 RC devices - Can not be used with TR 611 top2 RC 24 V and SELEKTA 171 top2 RC 24V	- TR top2 RC - LUNA top2 RC - SELEKTA top2 RC - TR top2 KNX	Antenna top2 RC-GPS	9070610
	Power unit top2 GPS - Required when connecting the antenna top2 RC-GPS to an individual TR 611 top2 RC, LUNA 121 top2 RC, LUNA 122 top2 RC or SELEKTA 171 top2 RC device (No additional power unit is required when connecting to a minimum of 2 devices) - Operating voltage: 230 V AC - Width: 2 modules	- TR top2 RC - LUNA top2 RC - SELEKTA top2 RC	Power unit top2 GPS	9070892

Accessories

	Description	Suitable for	Type	Article number
	Cover 55 x 55 for BZ - Cover for hour counter	- BZ 142-1	Cover 55 x 55 for BZ	9070041
	Cover 72 x 72 for BZ - Cover for hour counter	- BZ 142-1	Cover 72 x 72 for BZ	9070074
	Front kit BZ 142-3 - Terminal box cover plate for hour counter	- BZ 142-3	Front kit BZ 142-3	9070075
	Clamp BZ - Clamping bracket for hour counter	- BZ 142-1 - BZ 143-1 - BZ 146 - BZ 147	Clamp BZ	9070043
	Plug-in socket BZ - Plug-in base for hour counter	- BZ 142-3	Plug-in socket BZ	9070042
	Surface frame PresenceLight - Presence detector surface frame - Colour: Pure white - Additional colours available upon request	- PresenceLight 180 - PresenceLight 360	Surface frame PresenceLight	9070513
	Surface frame compact - Presence detector surface frame - Colour: Pure white - Additional colours available upon request	- compact office - compact passage - compact passimo	Surface frame compact	9070514
	Surface frame 110A WH - Presence detector surface frame - Colour: white - Additional colours available upon request	- thePrema	Surface frame 110A WH	9070912

	Description	Suitable for	Type	Article number
	Ceiling installation box 73A - Ceiling installation unit for thePrema, ensures strain relief and contact protection at the same time. The installation diameter is 72 mm (drill diameter 73 mm)	- thePrema	Ceiling installation box 73A	9070917
	PlanoSet RQ EWH - Mounting set consisting of round flush-mounting box PlanoFix E, white matching square cover PlanoCover and assembly parts - Additional colours available upon request - Easy and fast mounting in false-ceilings - Cut-out can be easily realized with a standard drill bit diameter 127 mm (5 inches) - The following installation and alignment of the presence detector PlanoCentro is implemented very easily and quickly - Frame PlanoCover: 142 x 142 mm	- PlanoCentro E	PlanoSet RQ EWH	9070736
	PlanoSet RR EWH As PlanoSet RQ EWH, but: - Round cover PlanoCover - Frame PlanoCover: Ø 172 mm	- PlanoCentro E	PlanoSet RR EWH	907040
	PlanoBox 1WH - Presence detector surface frame - Colour: Pure white - Additional colours available upon request - Dimensions: 100 x 123 x 123 mm	- PlanoCentro U	PlanoBox 1WH	9070731
	Junction casing, 115x115x100 mm - Agro/Kaiser flush-mounted junction box/connection box 9908.01	- PlanoCentro U	Junction casing, 115 x 115 x 100 mm	9070689
	Surface frame ECO-IR 360 - Presence detector surface frame - Colour: Pure white - Additional colours available upon request	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	Surface frame ECO-IR 360	9070512
	Surface frame ECO-IR 180 - Presence detector surface frame - Colour: Pure white - Additional colours available upon request	- ECO-IR 180A - ECO-IR 180-24V	Surface frame ECO-IR 180	9070511
	QuickFix concrete round cover - QuickFix concrete, flush-mounted socket for concrete - Flush ceiling installation - The presence detector is inserted into the false ceiling using a flush-mounted socket, just leaving pyramid lense visible - Colour: Pure white - Additional colours available upon request	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix concrete round cover	9070519

Accessories

	Description	Suitable for	Type	Article number
	QuickFix concrete square cover - QuickFix concrete, flush-mounted socket for concrete - Flush ceiling installation - The presence detector is inserted into the false ceiling using a flush-mounted socket, just leaving pyramid lens visible - Colour: Pure white - Additional colours available upon request	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix concrete square cover	9070518
	QuickFix concrete flush-mounted box - QuickFix flush-mounted socket concrete	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix concrete flush-mounted box	9070521
	QuickFix round cover - QuickFix housing, for false ceilings - Flush ceiling installation - The presence detector is inserted into the false ceiling, just leaving pyramid lens visible - Easy installation - Colour: Pure white - Additional colours available upon request	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix round cover	9070517
	QuickFix square cover - QuickFix housing, for false ceilings - Flush ceiling installation - The presence detector is inserted into the false ceiling, just leaving pyramid lens visible - Easy installation - Colour: Pure white - Additional colours available upon request	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix square cover	9070516
	QuickFix flush-mounted housing - QuickFix flush-mounted housing - Incl. flush-mounted socket	- ECO-IR DUAL-C NT - ECO-IR 360-24V - ECO-IR DUAL-EIB	QuickFix flush-mounted housing	9070522
	QuickSafe - QuickSafe safety cover - Secure protection against mechanical damage - Robust and solid design - Particularly impact resistant - 6 screws, 3 rawlplugs and three spacers - Protection class IK07	- All Theben HTS presence detectors	QuickSafe	9070531
	SendoPro 868-A - Infrared remote control for the convenient startup of HTS presence detectors - The SendoPro 868A management remote control for the electrician enables efficient start-up and flexible adaptation to new applications - Rapid adjustment of parameters to changed operating conditions without uninstalling detectors - Transmission of individual settings or complete configuration sets to the detector - Select configurations from PlanoCentro - Calling up of pre-defined value packets for typical rooms - Saving and calling up user-defined parameter sets on internal memory or SD card - Updates via SD card	- PresenceLight - compact office - compact passage - compact passimo - thePrema - ECO-IR DUAL-C NT - PlanoCentro	SendoPro 868-A	9070675

	Description	Suitable for	Type	Article number
	clic - Infrared remote control for ThebenHTS presence sensors - Switching and dimming of lighting, scene control - 2 channels for 2 lighting groups - 2 programmable scenes - 5 group addresses for defining channels - Coding switch and programming key for the easy allocation of lighting groups and channels	- PresenceLight 180/360 - compact office DIM - compact office 24V - compact office 24V Lux - compact passage 24V - compact passage - compact passimo - ECO-IR DUAL-C NT - compact passage KNX - compact passimo KNX	clic	9070515
	RC filter - Suppression filter for presence and motion detectors	- All presence and motion detectors	RC filter	9070523
	Spacer theLuxe S BK - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe S150 - the LuxaS180 - theLuxe S360	Spacer theLuxe S BK	9070907
	Spacer theLuxe S WH - Additional spacer for flexible installation (cable entry below, side, top and more space for cables)	- theLuxe S150 - the LuxaS180 - theLuxe S360	Spacer theLuxe S WH	9070906
	Corner angle theLuxe S BK - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe S150 - theLuxe S180 - theLuxe S360	Corner angle theLuxe S BK	9070903
	Corner angle theLuxe S WH - For corner installation of motion detectors - Wall installation, external corner installation	- theLuxe S150 - theLuxe S180 - theLuxe S360	Corner angle theLuxe S WH	9070902
	Surface frame LUXA 103-200 - Motion detector surface frame	- LUXA 103-200	Surface frame LUXA 103-200	9070504
	SPHINX corner angle - For corner installation of motion detectors - Wall installation, external corner installation	- SPHINX 105-110 - SPHINX 105-220 - SPHINX 105-300 - SHINX 105-300 KNX	SPHINX corner angle	9070535

Accessories

	Description	Suitable for	Type	Article number
	SPHINX RC 104 - User remote control for SPHINX 104 - ON/OFF (max. 8 h)/Automatic - Teach-in function for teaching in the current brightness value	- SPHINX 104-360 - SPHINX 104-360/2 - SPHINX 104-360 AP - SPHINX 104-360/2 AP	SPHINX RC 104	9070538
	SPHINX RC 104 Pro - Service remote control for SPHINX 104 - ON/OFF - Teach-in function for teaching in the current brightness value - Predefined brightness values and switch-on times - Impulse, reset and test function - Block function	- SPHINX 104-360 - SPHINX 104-360/2 - SPHINX 104-360 AP - SPHINX 104-360/2 AP	SPHINX RC 104 Pro	9070536
	SPHINX RC 105 - User remote control for SPHINX 105 - ON/OFF (2 hr, 4 hr, 8 hr) - Automatic - Teach-in function for teaching in the current brightness value	- SPHINX 105-110 - SPHINX 105-220 - SPHINX 105-300 - SPHINX 105-300 KNX	SPHINX RC 105	9070539
	SPHINX RC 105 Pro - Service remote control for SPHINX 105 - ON/OFF - Teach-in function for teaching in the current brightness value - Predefined brightness values and switch-on times - Impulse, reset and test function - Block function - Creep under protection ON/OFF	- SPHINX 105-110 - SPHINX 105-220 - SPHINX 105-300 - SPHINX 105-300 KNX	SPHINX RC 105 Pro	9070537
	theSenda P - Service remote control - ON/OFF - Teach-in function for teaching in the current brightness value - Predefined brightness values and switch-on times - Impulse, reset and test function - etc.	- PlanoCentro - PlanoCentro KNX - PresenceLight KNX - compact office DALI - thePrema	theSenda P	9070910
	theSenda S - User remote control - ON/OFF - Automatic - Presence simulation - Twilight switch - Call up of light scenes	- PlanoCentro - PlanoCentro KNX - PresenceLight KNX - compact office DALI - thePrema	theSenda S	9070911
	Adapter plate LUNA star - The adapter plate simplifies the replacement of faulty twilight switches from Eberle, ESYLUX, Legrand, Grässlin, Hager, Merten, Senmatic, Theben etc. As the plate has standard fixing holes, no further holes need to be drilled in the facade, 2 installation screws included.	- LUNA 126 star - LUNA 127 star - LUNA 128 star - LUNA 129 star-time	Adapter plate LUNA star	9070486
	Analogue flush-mounted light sensor - Connecting cable 1.5 m - Protection class IP 65	- LUNA 108 - LUNA 109 - LUNA 110 - LUNA 120 top2	Analogue flush-mounted light sensor	9070011

	Description	Suitable for	Type	Article number
	Analogue surface-mounted light sensor - Sensor rotatable - With mounting bracket and screw terminals - Protection class IP 55 - Dimensions: 95 x 48 x 45 mm	- LUNA 109 - LUNA 110 - LUNA 120 top2	Analogue surface-mounted light sensor	9070416
	Digital flush-mounted light sensor - Spring terminals - Protection class IP 66	- LUNA 111 top2 - LUNA 112 top2 - LUNA 121 top2 RC - LUNA 122 top2 RC - LUNA 134 KNX	Digital flush-mounted light sensor	9070456
	Digital surface-mounted light sensor - Sensor rotatable - With mounting bracket and screw terminals - Protection class IP 55 - Dimensions: 95 x 48 x 45 mm	- LUNA 111 top2 - LUNA 112 top2 - LUNA 121 top2 RC - LUNA 122 top2 RC - LUNA 134 KNX	Digital surface-mounted light sensor	9070415
	Surface-mounted light sensor - Sensor rotatable - With mounting bracket and Screw terminals - Protection class IP 54 - Dimensions: 116 x 27 x 61 mm	- LUNA 108 - LUXOR 411	Surface-mounted light sensor	9070008
	Diode module - Required for special functions (group/central function) with LUXOR - DIMAX: Light scenes, two button operation - 2 modules supplied in delivery	- LUXOR 400 - LUXOR 402 - LUXOR 404 - LUXOR 405 - LUXOR 408 S - LUXOR 409 S - DIMAX 534 plus	Diode module	9070367
	Adapter RAMSES 72x/78x - Wallpaper/wall cover plate for replacement of RAMSES 3...devices with new clock thermostats, e.g. RAMSES 722	- RAMSES 722 - RAMSES 722 S - RAMSES 782 - RAMSES 782 S - RAMSES 784 - RAMSES 784 S - RAMSES 721 - RAMSES 725	Adapter RAMSES 72x/78x	9070245
	Socket RAMSES - Plug-in socket for installing the RAMSES HF clock thermostat on the wall	- RAMSES 813 top2 Set A/ Set S/Set 1 - RAMSES 833 top2 Set 1/2	Socket RAMSES	9070605
	Adapter plate RAMSES 70x - Adapter plate for flush-mounted socket 79 x 79 mm	- RAMSES 701-709	Adapter plate RAMSES 70x	9070480

Accessories

	Description	Suitable for	Type	Article number
	Adapter plate RAMSES 714 - Adapter plate for flush-mounted socket 79 x 79 mm	- SOTHIS 715 - RAMSES 714 - RAMSES 714 A - RAMSES 714 A/FH	Adapter plate RAMSES 714	9070212
	External temperature sensor 1 - External temperature sensor	- RAMSES 366/1 top - RAMSES 366/2 top - RAMSES 713 S KNX - RAMSES 713 FC KNX - CHEOPS control KNX	External temperature sensor 1	9070191
	External temperature sensor 2 - With temperature adjustment of ± 3 K	- RAMSES 366/1 top - RAMSES 366/2 top	External temperature sensor 2	9070192
	Temperature sensor RAMSES IP 65 - External room temperature sensor - Protection class IP 65	- RAMSES 831 top2 - RAMSES 832 top2, RAMSES 833 top2 - RAMSES 833 top2 Sets - RAMSES 816 top2 OT - RAMSES 856 top2 OT	Temperature sensor RAMSES IP 65	9070459
	Temperature sensor - Temperature sensor for laying in floor - Type of protection IP 65	- RAMSES 831 top2 - RAMSES 832 top2 - RAMSES 833 top2 Sets - RAMSES 712 KNX - RAMSES 713 S KNX - RAMSES 713 FC KNX - FCA 1 KNX	Temperature sensor	9070321
	OT-Box Standard - For expansion of the RAMSES 856 top2 OT system	- RAMSES 856 top2 OT	OT-Box Standard	9070712
	Flow temperature sensor RAMSES - Also required for applications with 2 feed sensors	- RAMSES 816 top2 OT - RAMSES 856 top2 OT	Flow temperature sensor RAMSES	9070371
	Outside temperature sensor RAMSES - Type of protection IP 65	- RAMSES 816 top2 OT	Outside temperature sensor	9070463

	Description	Suitable for	Type	Article number
	Plunge sensor RAMSES - Additionally required for applications with domestic water control or boiler plunge sensor	- RAMSES 816 top2 OT - RAMSES 856 top2 OT	Plunge sensor RAMSES	9070379
	Actuator ALPHA 4 230 V - Actuator for radiators, heating circuit distributors or individual heating circuits - Operating voltage 230 V AC - For opening and closing of valves in the fields of heating, ventilation and air conditioning - The actuator control is by a room thermostat with two-point output or pulse-width-modulation - Inrush current max. 250 mA for max. 2 min., Operating current 75 mA - „First open function“ for easy installation and heating start-up - Plug-in installation on valve adapter to suit the most common valve bottoms and heating circuit distributors - Normally closed (Valve is closed when the operating voltage is cut) - Simple snap-on mounting to a valve adapter - Valve adapter not included in delivery - 100% protection against damaging drives through leaking valves - Function and adjustment checking - Installation vertical, horizontal and up-side-down possible - Up-side-down position may reduce product life through special circumstances (e.g. contaminated water) - Protection against disassembly by means of removable SaveGuard - Guaranteed overvoltage protection	- All clock thermostats - RAMSES 714 - RAMSES 751 - HMG 4/HME 4 KNX	Actuator ALPHA 4 230 V	9070438
	Actuator ALPHA 4 24 V As Actuator ALPHA 4 230 V, but: - Operating voltage 24 V AC/DC	- All clock thermostats - HMG 4/HME 4 KNX - HMT 6/HMT 12 KNX	Actuator ALPHA 4 24 V	9070439
	Valve adapter VA 80 - Valve adapters for Onda, Schlösser(from 1993), Oventrop (M30 x 1.5), Heimeier, Herb, Therm-Concept, Frank, Roth (distributor), Dinotherm (distributor) - Other adapters available upon request	- ALPHA 4 230 V - ALPHA 4 24 V - CHEOPS control KNX - CHEOPS drive KNX	Valve adapter VA 80	9070437
	Valve adapter VA 78 - Valve adapters for Danfoss RA - Other adapters available upon request	- ALPHA 4 230 V - ALPHA 4 24 V - CHEOPS control KNX - CHEOPS drive KNX	Valve adapter VA 78	9070436
	Frame RAMSES 74x - Frame for mechanical room thermostats - Without central part	- RAMSES 741 - RAMSES 746 - RAMSES 748	Frame RAMSES 74x	9070603

Accessories

	Description	Suitable for	Type	Article number
	Central part RAMSES 741/748 - Central part without switch section and setting button	- RAMSES 741 - RAMSES 748	Central part RAMSES 741/748	9070602
	Central part RAMSES 746 - Central part with switch section and setting button	- RAMSES 746	Central part RAMSES 746	9070601
	Power unit CO₂-sensor - 24 V/12 W flush-mounted power unit (SELV)	- AMUN 716 R	Power unit CO ₂ -sensor	9070494
	Mast mounting weather station - For mast installation of the weather station - Diameter 50–60 mm	- LUXOR 412 - LUXOR 413 - Weather station KNX - Weather station basic KNX - Meteodata 140 KNX - Meteodata 140 GPS KNX	Mast mounting weather station	9070380
	GSM cable PHARAO-II - PHARAO-II GSM interface cable - Enables connection to be established and SMS data to be transmitted to mobile telephone, email address or fax machine. The interface for connecting the GSM cable is located below the plug-in upgrade modules.	- PHARAO-II	GSM cable PHARAO-II	9070329
	Memory module PHARAO-II - Plug-in EEPROM memory module (5 kByte) - External memory module for transferring and/or downloading the program from or to the internal EEPROM system memory. Internal program is deactivated for as long as the external memory module is plugged in (dual programming).	- PHARAO-II	Memory module PHARAO-II	9070328
	Power unit 24 V DC - Power pack for supply voltage from PHARAO controllers and sensors. Power unit sufficient for 5 x PhARAO-II 14/15 or 4 x PHARAO-II 24/25 controls - Width: 3 modules	- LUNA 131 DDC - PHARAO-II	Power unit 24 V DC	9079330
	Programming cable PHARAO - For series connection (RS 232) to enable control programs to be configured and parameterised. This cable is used to connect an analogue model for remote maintenance and remote control.	- PHARAO-II	Programming cable PHARAO	9070252

Index 2014/2015

Alphabetical A ... H

Type	Art.-No.	EAN/GTIN	Page
A			
Actuator ALPHA 4 230 V	9070438	4003468904244	255
Actuator ALPHA 4 24 V	9070439	4003468904251	255
Adapter plate RAMSES 70x	9070480	4003468904299	253
Adapter plate RAMSES 714	9070212	4003468900796	254
Adapter RAMSES 72x/78x	9070245	4003468902059	253
Adpater plate LUNA star	9070486	4003468907559	252
AMUN 716 KNX	7169200	4003468716205	197
AMUN 716 R	7160101	4003468716250	174
Analogue flush-mounted light sensor	9070011	4003468900604	252
Analogue surface-mounted light sensor	9070416	4003468904275	253
Antenna DCF77 KNX	9070271	4003468903056	247
Antenna top2 RC-DCF	9070410	4003468904077	247
Antenna top2 RC-GPS	9070610	4003468903254	247
B			
BME 6 KNX	4910231	4003468491317	189
BMG 6 KNX	4910230	4003468491300	189
BZ 142-1	1420721	4003468140017	56
BZ 142-1 10V	1420821	4003468140420	56
BZ 142-1 230V	1420621	4003468140086	56
BZ 142-1 24V	1424721	4003468140932	56
BZ 142-3	1420723	4003468140024	56
BZ 142-3 10V	1420823	4003468140369	56
BZ 143-1	1430721	4003468140130	56
BZ 145	1450000	4003468140918	56
BZ 145 24V	1459024	4003468141021	56
BZ 146	1460000	4003468146002	58
BZ 147	1470000	4003468147009	58
BZ 148	1480000	4003468148006	58
C			
Ceiling installation box 73A	9070917	7612748004979	249
Central part RAMSES 741/748	9070602	4003468904589	256
Central part RAMSES 746	9070601	4003468904572	256
CHEOPS control KNX	7329201	4003468732014	196
CHEOPS drive KNX	7319200	4003468731000	196
Clamp BZ	9070043	4003468900703	248
clic	9070515	7612748000919	251
compact office 24V	2014000	7612748001039	112
compact office 24V BK	2014800	7612748002777	112
compact office 24V LUX	2014001	7612748001121	114
compact office 24V LUX BK	2014803	7612748002807	114
compact office 24V LUX SR	2014804	7612748002814	114
compact office 24V SR	2014801	7612748002784	112
compact office DALI BK	2010011	7612748004061	90
compact office DALI SR	2010012	7612748004078	90
compact office DALI WH	2010010	7612748004054	90
compact office DIM	2010001	7612748000773	88
compact office DIM BK	2010803	7612748002715	88
compact office DIM SR	2010804	7612748002722	88
compact passage	2010090	7612748001626	92
compact passage 24 V	2014090	7612748001725	116
compact passage 24V BK	2014806	7612748002838	116
compact passage 24V SR	2014807	7612748002845	116
compact passage BK	2010806	7612748002746	92
compact passage KNX	2019290	7612748001732	204
compact passage KNX BK	2019803	7612748002890	204
compact passage KNX SR	2019804	7612748002906	204
compact passage SR	2010807	7612748002753	92
compact passimo BK	2010809	7612748003361	94
compact passimo KNX BK	2019809	7612748003446	204

Type	Art.-No.	EAN/GTIN	Page
compact passimo KNX SR	2019810	7612748003453	204
compact passimo KNX WH	2019280	7612748003439	204
compact passimo SR	2010810	7612748003378	94
compact passimo WH	2010080	7612748003354	94
Corner angle theLuxa S BK	9070903	4003468900284	251
Corner angle theLuxa S WH	9070902	4003468900277	251
Cover 55 x 55 for BZ	9070041	4003468902004	248
Cover 72 x 72 for BZ	9070074	4003468900925	248
D			
DALI Gateway KNX	9070722	4003468900048	222
Digital flush-mounted light sensor	9070456	4003468904343	253
Digital surface-mounted light sensor	9070415	4003468904268	253
DIMAX 532 plus	5320001	4003468530016	68
DIMAX 534 plus	5340001	4003468530009	68
Diode module	9070367	4003468903605	253
DMB 1 T KNX	4930279	4003468490020	184
DMB 2 S KNX	4910272	4003468491720	186
DME 2 S KNX	4910271	4003468491713	186
DME 2 T KNX	4930275	4003468490013	184
DMG 2 S KNX	4910270	4003468491706	186
DMG 2 T KNX	4930270	4003468490006	184
E			
ECO-IR 180-24V	2024050	7612748000537	120
ECO-IR 180-24V BK	2024803	7612748002234	120
ECO-IR 180-24V SR	2024804	7612748002241	120
ECO-IR 180A	2020050	7612748000476	110
ECO-IR 180A BK	2020809	7612748002111	110
ECO-IR 180A SR	2020810	7612748002128	110
ECO-IR 360 DUAL-C NT	2020401	7612748000872	98
ECO-IR 360-24V	2024000	7612748000544	118
ECO-IR 360-24V BK	2024800	7612748002203	118
ECO-IR 360-24V SR	2024801	7612748002210	118
ECO-IR DUAL-C NT BK	2020815	7612748002173	98
ECO-IR DUAL-C NT SR	2020816	7612748002180	98
ELPA 041	0410002	4003468041000	66
ELPA 047	0470002	4003468047002	66
ELPA 1	0010002	4003468010518	62
ELPA 3	0030002	4003468010501	62
ELPA 6	0060002	4003468010525	62
ELPA 7	0070002	4003468007006	62
ELPA 8	0080002	4003468010068	64
ELPA 9	0090001	4003468010129	64
EM 4 top2	6490104	4003468649008	26
EM LAN top2	6490900	4003468649015	26
External temperature sensor 1	9070191	4003468901915	254
External temperature sensor 2	9070192	4003468901922	254
F			
FCA 1 KNX	4920200	4003468492000	199
Flow temperature sensor RAMSES	9070371	4003468903629	254
Frame RAMSES 74x	9070603	4003468904596	255
FRI 77 g	0770033	4003468070024	50
FRI 77 g-2	0770832	4003468070086	50
FRI 77 h-2	0770802	4003468070048	50
Front kit BZ 142-3	9070075	4003468900932	248
Front panel kit	9070001	4003468900109	246
G			
GSM cable PHARAO-II	9070329	4003468903483	256
H			
HME 4 KNX	4910211	4003468491119	194
HMG 4 KNX	4910210	4003468491102	194

Type	Art.-No.	EAN/GTIN	Page
HMT 12 KNX	4900274	4003468490549	195
HMT 6 KNX	4900273	4003468490532	195
I			
Interface USB KNX	9070397	4003468903995	225
J			
JME 4 S KNX	4910251	4003468491515	188
JMG 4 S KNX	4910250	4003468491508	188
Junction casing, 115 x 115 x 100 mm	9070689	7612748002661	249
K			
KNX-OT-Box	8559200	4003468855034	223
L			
Line coupler S KNX	9070880	4003468900253	225
LUNA 108 AL	1080710	4003468108017	72
LUNA 108 EL	1080700	4003468108000	72
LUNA 109 AL	1090100	4003468109007	72
LUNA 109 EL	1090200	4003468109014	72
LUNA 110 AL	1100100	4003468111109	72
LUNA 110 AL 24V	1104100	4003468111161	72
LUNA 110 EL	1100200	4003468111154	72
LUNA 110 EL 24V	1104200	4003468111222	72
LUNA 111 top2 AL	1110100	4003468111147	74
LUNA 111 top2 EL	1110200	4003468111116	74
LUNA 112 top2 AL	1120100	4003468112007	74
LUNA 112 top2 EL	1120200	4003468112014	74
LUNA 120 top2 AL	1200100	4003468120002	77
LUNA 120 top2 EL	1200200	4003468120019	77
LUNA 121 top2 RC AL	1210100	4003468121009	76
LUNA 121 top2 RC AL 24 V	1214100	4003468121054	76
LUNA 121 top2 RC EL	1210200	4003468121016	76
LUNA 121 top2 RC EL 24 V	1214200	4003468121078	76
LUNA 122 top2 RC AL	1220100	4003468122006	76
LUNA 122 top2 RC EL	1220200	4003468122013	76
LUNA 126 star	1260700	4003468126035	78
LUNA 127 star	1270700	4003468127001	78
LUNA 128 star	1280700	4003468128008	78
LUNA 129 star-time	1290700	4003468129005	78
LUNA 131 DDC	1319700	4003468131022	244
LUNA 131 KNX	1319201	4003468131039	244
LUNA 133 KNX	1339200	4003468133002	217
LUNA 134 KNX	1349200	4003468130032	215
LUXA 102 FL LED 16W BK	1020774	4003468100189	134
LUXA 102 FL LED 16W WH	1020773	4003468100172	134
LUXA 102 FL LED 32W BK	1020776	4003468100202	134
LUXA 102 FL LED 32W WH	1020775	4003468100196	134
LUXA 102 FL LED 8W BK	1020772	4003468100165	134
LUXA 102 FL LED 8W WH	1020771	4003468100141	134
LUXA 102-140 LED 16W BK	1020974	4003468100066	130
LUXA 102-140 LED 16W WH	1020973	4003468100059	130
LUXA 102-140 LED 8W BK	1020972	4003468100035	130
LUXA 102-140 LED 8W WH	1020971	4003468100028	130
LUXA 102-150/150W black	1020962	4003468102015	128
LUXA 102-150/150W white	1020961	4003468102008	128
LUXA 102-150/500W black	1020964	4003468102039	128
LUXA 102-150/500W white	1020963	4003468102022	128
LUXA 102-180 LED 32W BK	1020976	4003468100097	132
LUXA 102-180 LED 32W WH	1020975	4003468100080	132
LUXA 103-200	1030030	4003468103043	142
LUXA 103-200 T	1030031	4003468103050	142
LUXA 103-360	1030010	4003468103005	138
LUXA 103-360 AP	1030020	4003468103029	140

Type	Art.-No.	EAN/GTIN	Page
LUXA 103-360/2	1030011	4003468103012	138
LUXA 103-360/2 AP	1030021	4003468103036	140
LUXOR 400	4000000	4003468400005	230
LUXOR 402	4020000	4003468402009	230
LUXOR 404	4040000	4003468404003	230
LUXOR 405	4050000	4003468405000	232
LUXOR 408 S	4080100	4003468408032	233
LUXOR 409 S	4090100	4003468409039	233
LUXOR 411	4110000	4003468411001	234
LUXOR 412	4120000	4003468412008	234
LUXOR 413	4130000	4003468413005	234
LUXOR 414	4140000	4003468414002	238
LUXOR 426	4260000	4003468426005	236
LUXOR Set 3	4990003	4003468499030	239
LUXOR Set 4	4990004	4003468499047	239
LUXOR Set 5	4990005	4003468499054	239
M			
Mast mounting weather station	9070380	4003468903742	256
MEM 190 a	1900001	4003468190050	36
Memory card OBELISK top2	9070404	4003468904053	247
Memory module PHARAO-II	9070328	4003468903414	256
Meteodata 139 KNX	1399200	4003468130001	214
Meteodata 140 GPS KNX	1409203	4003468140444	212
Meteodata 140 KNX	1409200	4003468140437	212
Multiple contact strip	9075141	4003468904688	246
O			
OSIRIA 220 AR KNX	5009200	4003468500057	226
OSIRIA 230 AR KNX	5009210	4003468500071	226
OSIRIA 230 SR KNX	5009211	4003468500088	226
OSIRIA 232 BQ KNX	5009223	4003468500293	227
OSIRIA 240 AR KNX	5009230	4003468500132	226
OSIRIA 240 SR KNX	5009231	4003468500149	226
OSIRIA 242 AR KNX	5009250	4003468500194	227
OSIRIA 242 SR KNX	5009251	4003468500200	227
OSIRIA 251 BQ KNX	5009252	4003468500279	227
OT-Box Standard	9070712	4003468904763	254
Outdoor temperature sensor	9070463	4003468900871	254
P			
PC set OBELISK top2	9070409	4003468904015	247
PHARAO-II 10 (AC)	5750210	4003468575185	242
PHARAO-II 11 (DC)	5759211	4003468575192	242
PHARAO-II 14 (AC)	5750014	4003468575093	242
PHARAO-II 15 (DC)	5759015	4003468575109	242
PHARAO-II 24 (AC)	5750024	4003468575116	242
PHARAO-II 25 (DC)	5759025	4003468575123	242
PHARAO-II extension 4AR (AC)	5759102	4003468575154	242
PlanoBox 1WH	9070731	7612748003873	249
PlanoCentro 000-EBK	2040103	7612748003286	102
PlanoCentro 000-ESR	2040104	7612748003293	102
PlanoCentro 000-EWH	2040102	7612748003279	102
PlanoCentro 000-UBK	2040203	7612748003323	102
PlanoCentro 000-USR	2040204	7612748003330	102
PlanoCentro 000-UWH	2040202	7612748003316	102
PlanoCentro 101-EBK	2030103	7612748002463	102
PlanoCentro 101-ESR	2030104	7612748002470	102
PlanoCentro 101-EWH	2030102	7612748002456	102
PlanoCentro 101-UBK	2030203	7612748002500	102
PlanoCentro 101-USR	2030204	7612748002517	102
PlanoCentro 101-UWH	2030202	7612748002494	102
PlanoCentro 201-EBK	2030503	7612748003101	104

Index 2014/2015

Alphabetical Q ... S

Type	Art.-No.	EAN/GTIN	Page
PlanoCentro 201-ESR	2030504	7612748003118	104
PlanoCentro 201-EWH	2030502	7612748003095	104
PlanoCentro 201-UBK	2030603	7612748003149	104
PlanoCentro 201-USR	2030604	7612748003156	104
PlanoCentro 201-UWH	2030602	7612748003132	104
PlanoCentro 300-EBK	2030303	7612748003194	104
PlanoCentro 300-ESR	2030304	7612748003200	104
PlanoCentro 300-EWH	2030302	7612748003187	104
PlanoCentro 300-UBK	2030403	7612748003231	104
PlanoCentro 300-USR	2030404	7612748003248	104
PlanoCentro 300-UWH	2030402	7612748003224	104
PlanoCentro EBK-A KNX	2059103	7612748003651	208
PlanoCentro ESR-A KNX	2059104	7612748003668	208
PlanoCentro EWH-A KNX	2059102	7612748003644	208
PlanoCentro UBK-A KNX	2059203	7612748003699	208
PlanoCentro USR-A KNX	2059204	7612748003705	208
PlanoCentro UWH-A KNX	2059202	7612748003682	208
PlanoSet RQ EWH	9070736	7612748004696	249
PlanoSet RR EWH	9070740	7612748004658	249
Plug-in socket BZ	9070042	4003468900697	248
Plunge sensor RAMSES	9070379	4003468903711	255
Power supply 320 mA KNX	9070699	4003468904541	224
Power supply KNX 160 mA	9070701	4003468904558	224
Power supply KNX 640 mA	9070364	4003468903582	224
Power unit 24 V DC	9079330	4003468903520	256
Power unit CO2-sensor	9070494	4003468904534	256
Power unit top2 GPS	9070892	4003468904718	247
PresenceLight 180	2000050	7612748001602	108
PresenceLight 180 BK	2000803	7612748002050	108
PresenceLight 180 SR	2000804	7612748002067	108
PresenceLight 180B-KNX BK	2009815	7612748003842	210
PresenceLight 180B-KNX SR	2009816	7612748003859	210
PresenceLight 180B-KNX WH	2009050	7612748003835	210
PresenceLight 360	2000000	7612748001107	82
PresenceLight 360 BK	2000800	7612748002029	82
PresenceLight 360 SR	2000801	7612748002036	82
PresenceLight 360B-KNX BK	2009812	7612748003767	202
PresenceLight 360B-KNX SR	2009813	7612748003774	202
PresenceLight 360B-KNX WH	2009000	7612748003750	202
Programming cable PHARAO	9070252	4003468902851	256
Q			
QuickFix concrete flush-mounted box	9070521	7612748000742	250
QuickFix concrete round cover	9070519	7612748000964	249
QuickFix concrete square cover	9070518	7612748000971	250
QuickFix flush-mounted housing	9070522	7612748000551	250
QuickFix round cover	9070517	7612748000568	250
QuickFix square cover	9070516	7612748000575	250
QuickSafe	9070531	7612748000582	250
R			
RAMSES 366/1 top	3660002	4003468360217	158
RAMSES 366/2 top	3660052	4003468360293	158
RAMSES 701	7010001	4003468701140	166
RAMSES 702	7020001	4003468702055	166
RAMSES 703	7030001	4003468703052	166
RAMSES 704	7040001	4003468704028	166
RAMSES 705	7050001	4003468705032	166
RAMSES 706	7060001	4003468706022	166
RAMSES 707	7070001	4003468707029	166
RAMSES 708	7080001	4003468708026	166
RAMSES 709	7090001	4003468709030	166

Type	Art.-No.	EAN/GTIN	Page
RAMSES 712 KNX	7129200	4003468712009	193
RAMSES 713 FC KNX	7139202	4003468713020	198
RAMSES 713 S KNX	7139201	4003468713013	192
RAMSES 714	7140002	4003468714126	170
RAMSES 714 A	7140016	4003468714133	170
RAMSES 721	7210030	4003468721018	162
RAMSES 722	7220030	4003468722015	162
RAMSES 722 s	7220801	4003468722022	160
RAMSES 725	7250030	4003468725016	162
RAMSES 741	7410130	4003468741023	168
RAMSES 741 RA	7410131	4003468741030	168
RAMSES 746	7460130	4003468746028	168
RAMSES 746 RA	7460131	4003468746035	168
RAMSES 748	7480130	4003468748022	168
RAMSES 748 RA	7480131	4003468748039	168
RAMSES 751 RA	7510131	4003468751008	170
RAMSES 782	7820030	4003468782019	162
RAMSES 784	7840030	4003468784013	162
RAMSES 784 HF Set 1	7849407	4003468784143	162
RAMSES 784 s	7840801	4003468784020	160
RAMSES 811 top2	8119132	4003468811139	146
RAMSES 812 top2	8120132	4003468812037	148
RAMSES 813 top2 HF Set 1	8139501	4003468813218	150
RAMSES 813 top2 HF Set S	8139505	4003468813188	150
RAMSES 813 top2HF Set A	8139503	4003468813164	150
RAMSES 816 top2 OT	8169132	4003468810002	154
RAMSES 831 top2	8319132	4003468831052	146
RAMSES 832 top2	8320132	4003468832035	148
RAMSES 833 top2 HF Set 1	8339501	4003468833049	152
RAMSES 833 top2 HF Set 2	8339502	4003468833056	152
RAMSES 856 top2 OT	8569132	4003468850084	156
RC filter	9070523	7612748001701	251
RME 4 C-load KNX	4910207	4003468491072	180
RME 4 I KNX	4930215	4003468493090	178
RME 4 S KNX	4910205	4003468491058	181
RME 8 S KNX	4930225	4003468493076	179
RMG 4 C-load KNX	4910206	4003468491065	180
RMG 4 I KNX	4930210	4003468493083	178
RMG 4 S KNX	4910204	4003468491041	181
RMG 8 S KNX	4930220	4003468493069	179
S			
SELEKTA 170 top2	1700100	4003468170533	20
SELEKTA 170 top2 24V	1704100	4003468170564	20
SELEKTA 171 top2 RC	1710100	4003468171004	20
SELEKTA 171 top2 RC 24 V	1714100	4003468171035	20
SELEKTA 172 top2	1720100	4003468172001	20
SELEKTA 172 top2 24V	1724100	4003468172056	20
SendoPro 868-A	9070675	7612748002524	250
SME 2 S KNX	4910274	4003468491744	182
SMG 2 S KNX	4910273	4003468491737	182
Snap-on mounting 72 x 72	9070071	4003468900895	246
Socket RAMSES	9070605	4003468904657	253
SOTHIS 715	7150002	4003468715024	175
Spacer theLuxa S BK	9070907	4003468900345	251
Spacer theLuxa S WH	9070906	4003468900338	251
SPHINX 104-360	1040370	4003468104026	84
SPHINX 104-360 AP	1040360	4003468104002	84
SPHINX 104-360/2	1040372	4003468104033	84
SPHINX 104-360/2 AP	1040362	4003468104019	84
SPHINX 104-360/2 DIMplus	1040374	4003468104040	86

Type	Art.-No.	EAN/GTIN	Page
SPHINX 105-110	1050110	4003468105009	128
SPHINX 105-220	1050220	4003468105016	128
SPHINX 105-300	1050300	4003468105023	128
SPHINX 105-300 KNX	1059203	4003468105030	200
SPHINX 331 S KNX	1079215	4003468100394	201
SPHINX 332 S KNX	1079216	4003468100417	201
SPHINX corner angle	9070535	4003468904398	251
SPHINX RC 104	9070538	4003468904428	252
SPHINX RC 104 Pro	9070536	4003468904404	252
SPHINX RC 105	9070539	4003468904435	252
SPHINX RC 105 Pro	9070537	4003468904411	252
SUD 228 II	2280577	4003468228012	244
SUL 180 a	1800001	4003468183311	36
SUL 181 d	1810011	4003468182383	38
SUL 181 h 12V	1817008	4003468181980	38
SUL 181 h 24V	1814008	4003468182505	38
SUL 188 g	1880033	4003468181003	40
SUL 188 hw	1880108	4003468181010	40
SUL 189 hw	1890108	4003468181164	46
SUL 189 s	1890801	4003468180631	42
SUL 189 s 110V	1891801	4003468182093	42
SUL 191 w	1910011	4003468191040	38
SUL 285/2 T	2850033	4003468285022	48
SUL 289 g	2890033	4003468280096	44
SUL 289 h	2890008	4003468280089	44
Surface frame 110A WH	9070912	7612748004900	248
Surface frame compact	9070514	7612748000711	248
Surface frame ECO-IR 180	9070511	7612748000735	249
Surface frame ECO-IR 360	9070512	7612748000728	249
Surface frame LUXA 103-200	9070504	4003468904367	251
Surface frame PresenceLight	9070513	7612748001145	248
Surface-mounted light sensor	9070008	4003468900574	253
SYN 151 h	1510011	4003468151006	38
SYN 160 a	1600001	4003468161609	36
SYN 161 d	1610011	4003468161371	38
SYN 169 s	1690801	4003468160633	42
SYN 269 h	2690008	4003468260012	44
T			
TA 2 KNX	4969202	4003468496022	190
TA 4 KNX	4969204	4003468496046	190
TA 6 KNX	4969206	4003468496060	190
Temperature sensor	9070321	4003468903360	254
Temperature sensor RAMSES IP 65	9070459	4003468903810	254
Terminal cover 52,5 mm	9070061	4003468900802	246
theben-eltimo 020 S	0200000	4003468022313	32
theben-eltimo 020 S DCF	0200300	4003468024034	32
theben-timer 26	0260030	4003468020821	49
theben-timer 26 IP 44	0260855	4003468020166	49
theben-timer 27	0270930	4003468020869	49
theLuxa S150 BK	1010501	4003468100226	124
theLuxa S150 WH	1010500	4003468100219	124
theLuxa S180 BK	1010506	4003468100257	124
theLuxa S180 WH	1010505	4003468100240	124
theLuxa S360 BK	1010511	4003468100271	126
theLuxa S360 WH	1010510	4003468100264	126
thePrema P360 KNX UP GR	2079001	7612748004467	206
thePrema P360 KNX UP WH	2079000	7612748004450	206
thePrema P360 Slave UP GR	2070031	7612748004542	100
thePrema P360 Slave UP WH	2070030	7612748004535	100
thePrema P360-101 UP GR	2070006	7612748004344	100

Type	Art.-No.	EAN/GTIN	Page
thePrema P360-101 UP WH	2070005	7612748004337	100
thePrema S360 KNX UP GR	2079502	7612748004504	206
thePrema S360 KNX UP WH	2079500	7612748004498	206
thePrema S360 Slave UP GR	2070531	7612748004580	96
thePrema S360 Slave UP WH	2070530	7612748004573	96
thePrema S360-100 UP GR	2070501	7612748004429	96
thePrema S360-100 UP WH	2070500	7612748004412	96
thePrema S360-101 UP GR	2070506	7612748004382	96
thePrema S360-101 UP WH	2070505	7612748004375	96
theSenda P	9070910	4003468900475	252
theSenda S	9070911	4003468900505	252
TM 179 h	1790008	4003468170151	46
TM 345 B	3450730	4003468340103	54
TM 345 M	3450731	4003468340110	54
TR 608 top2 S	6080101	4003468600115	22
TR 609 top2 S	6090101	4003468600122	22
TR 610 top2	6100100	4003468611814	16
TR 610 top2 24V	6104100	4003468613009	16
TR 610 top2 G	6100110	4003468612590	16
TR 611 top2	6110100	4003468611821	18
TR 611 top2 24V	6114100	4003468613016	18
TR 611 top2 RC	6110300	4003468611838	18
TR 611 top2 RC 24V	6114300	4003468612231	18
TR 612 top2	6120100	4003468611845	16
TR 612 top2 24V	6124100	4003468613023	16
TR 622 top2	6220100	4003468611852	18
TR 622 top2 24V	6224100	4003468613030	18
TR 635 top2	6350100	4003468630006	28
TR 636 top2	6360100	4003468630020	28
TR 641 top2	6410100	4003468641088	24
TR 641 top2 24V	6414300	4003468641125	24
TR 641 top2 RC	6410300	4003468641118	24
TR 642 top2	6420100	4003468642085	24
TR 642 top2 24V	6424300	4003468642115	24
TR 642 top2 RC	6420300	4003468642108	24
TR 644 top2	6440100	4003468644232	24
TR 644 top2 RC	6440300	4003468644218	24
TR 648 top2 RC KNX	6489212	4003468640012	218
TR 648 top2 RC-DCF KNX	6489210	4003468640005	218
TR 684-1 top2	6840100	4003468680254	30
TR 684-2 top2	6840101	4003468680261	30
V			
Valve adapter VA 80	9070437	4003468904237	255
VARIA 826 S BK KNX	8269211	4003468820056	191
VARIA 826 S WH KNX	8269210	4003468820049	191
W			
Wall mounting kit 17,5 mm	9070065	4003468900833	246
Wall mounting kit 35 mm	9070064	4003468900826	246
Wall mounting kit 52,5 mm	9070050	4003468900734	246
Wall mounting kit 70 mm	9070049	4003468900727	246
Weather station basic KNX	1329205	4003468132043	213
Weather station KNX	1329201	4003468132029	213
Z			
ZS 600 DCF KNX	6009200	4003468600009	220

Index 2014/2015

Numerical 0010002 ... 1890108

Art.-No.	Type	EAN/GTIN	Page
0010002	ELPA 1	4003468010518	62
0030002	ELPA 3	4003468010501	62
0060002	ELPA 6	4003468010525	62
0070002	ELPA 7	4003468007006	62
0080002	ELPA 8	4003468010068	64
0090001	ELPA 9	4003468010129	64
0200000	theben-eltimo 020 S	4003468022313	32
0200300	theben-eltimo 020 S DCF	4003468024034	32
0260030	theben-timer 26	4003468020821	49
0260855	theben-timer 26 IP 44	4003468020166	49
0270930	theben-timer 27	4003468020869	49
0410002	ELPA 041	4003468041000	66
0470002	ELPA 047	4003468047002	66
0770033	FRI 77 g	4003468070024	50
0770802	FRI 77 h-2	4003468070048	50
0770832	FRI 77 g-2	4003468070086	50
1010500	theLuxa S150 WH	4003468100219	124
1010501	theLuxa S150 BK	4003468100226	124
1010505	theLuxa S180 WH	4003468100240	124
1010506	theLuxa S180 BK	4003468100257	124
1010510	theLuxa S360 WH	4003468100264	126
1010511	theLuxa S360 BK	4003468100271	126
1020961	LUXA 102-150/150W white	4003468102008	128
1020962	LUXA 102-150/150W black	4003468102015	128
1020963	LUXA 102-150/500W white	4003468102022	128
1020964	LUXA 102-150/500W black	4003468102039	128
1020771	LUXA 102 FL LED 8W WH	4003468100141	134
1020772	LUXA 102 FL LED 8W BK	4003468100165	134
1020773	LUXA 102 FL LED 16W WH	4003468100172	134
1020774	LUXA 102 FL LED 16W BK	4003468100189	134
1020775	LUXA 102 FL LED 32W WH	4003468100196	134
1020776	LUXA 102 FL LED 32W BK	4003468100202	134
1020971	LUXA 102-140 LED 8W WH	4003468100028	130
1020972	LUXA 102-140 LED 8W BK	4003468100035	130
1020973	LUXA 102-140 LED 16W WH	4003468100059	130
1020974	LUXA 102-140 LED 16W BK	4003468100066	130
1020975	LUXA 102-180 LED 32W WH	4003468100080	132
1020976	LUXA 102-180 LED 32W BK	4003468100097	132
1030010	LUXA 103-360	4003468103005	138
1030011	LUXA 103-360/2	4003468103012	138
1030020	LUXA 103-360 AP	4003468103029	140
1030021	LUXA 103-360/2 AP	4003468103036	140
1030030	LUXA 103-200	4003468103043	142
1030031	LUXA 103-200 T	4003468103050	142
1040360	SPHINX 104-360 AP	4003468104002	84
1040362	SPHINX 104-360/2 AP	4003468104019	84
1040370	SPHINX 104-360	4003468104026	84
1040372	SPHINX 104-360/2	4003468104033	84
1040374	SPHINX 104-360/2 DIMplus	4003468104040	86
1050110	SPHINX 105-110	4003468105009	128
1050220	SPHINX 105-220	4003468105016	128
1050300	SPHINX 105-300	4003468105023	128
1059203	SPHINX 105-300 KNX	4003468105030	200
1079215	SPHINX 331 S KNX	4003468100394	201
1079216	SPHINX 332 S KNX	4003468100417	201
1080700	LUNA 108 EL	4003468108000	72
1080710	LUNA 108 AL	4003468108017	72
1090100	LUNA 109 AL	4003468109007	72
1090200	LUNA 109 EL	4003468109014	72

Art.-No.	Type	EAN/GTIN	Page
1100100	LUNA 110 AL	4003468111109	72
1100200	LUNA 110 EL	4003468111154	72
1104100	LUNA 110 AL 24V	4003468111161	72
1104200	LUNA 110 EL 24V	4003468111222	72
1110100	LUNA 111 top2 AL	4003468111147	74
1110200	LUNA 111 top2 EL	4003468111116	74
1120100	LUNA 112 top2 AL	4003468112007	74
1120200	LUNA 112 top2 EL	4003468112014	74
1200100	LUNA 120 top2 AL	4003468120002	77
1200200	LUNA 120 top2 EL	4003468120019	77
1210100	LUNA 121 top2 RC AL	4003468121009	76
1210200	LUNA 121 top2 RC EL	4003468121016	76
1214100	LUNA 121 top2 RC EL 24 V	4003468121054	76
1214200	LUNA 121 top2 RC EL 24 V	4003468121078	76
1220100	LUNA 122 top2 RC AL	4003468122006	76
1220200	LUNA 122 top2 RC EL	4003468122013	76
1260700	LUNA 126 star	4003468126035	78
1270700	LUNA 127 star	4003468127001	78
1280700	LUNA 128 star	4003468128008	78
1290700	LUNA 129 star-time	4003468129005	78
1319201	LUNA 131 KNX	4003468131039	244
1319700	LUNA 131 DDC	4003468131022	244
1329201	Weather station KNX	4003468132029	213
1329205	Weather station basic KNX	4003468132043	213
1339200	LUNA 133 KNX	4003468133002	217
1349200	LUNA 134 KNX	4003468130032	215
1399200	Meteodata 139 KNX	4003468130001	214
1409200	Meteodata 140 KNX	4003468140437	212
1409203	Meteodata 140 GPS KNX	4003468140444	212
1420621	BZ 142-1 230V	4003468140086	56
1420721	BZ 142-1	4003468140017	56
1420723	BZ 142-3	4003468140024	56
1420821	BZ 142-1 10V	4003468140420	56
1420823	BZ 142-3 10V	4003468140369	56
1424721	BZ 142-1 24V	4003468140932	56
1430721	BZ 143-1	4003468140130	56
1450000	BZ 145	4003468140918	56
1459024	BZ 145 24V	4003468141021	56
1460000	BZ 146	4003468146002	58
1470000	BZ 147	4003468147009	58
1480000	BZ 148	4003468148006	58
1510011	SYN 151 h	4003468151006	38
1600001	SYN 160 a	4003468161609	36
1610011	SYN 161 d	4003468161371	38
1690801	SYN 169 s	4003468160633	42
1700100	SELEKTA 170 top2	4003468170533	20
1704100	SELEKTA 170 top2 24V	4003468170564	20
1710100	SELEKTA 171 top2 RC	4003468171004	20
1714100	SELEKTA 171 top2 RC 24 V	4003468171035	20
1720100	SELEKTA 172 top2	4003468172001	20
1724100	SELEKTA 172 top2 24V	4003468172056	20
1790008	TM 179 h	4003468170151	46
1800001	SUL 180 a	4003468183311	36
1810011	SUL 181 d	4003468182383	38
1814008	SUL 181 h 24V	4003468182505	38
1817008	SUL 181 h 12V	4003468181980	38
1880033	SUL 188 g	4003468181003	40
1880108	SUL 188 hw	4003468181010	40
1890108	SUL 189 hw	4003468181164	46

Art.-No.	Type	EAN/GTIN	Page
1890801	SUL 189 s	4003468180631	42
1891801	SUL 189 s 110V	4003468182093	42
1900001	MEM 190 a	4003468190050	36
1910011	SUL 191 w	4003468191040	38
2000000	PresenceLight 360	7612748001107	82
2000050	PresenceLight 180	7612748001602	108
2000800	PresenceLight 360 BK	7612748002029	82
2000801	PresenceLight 360 SR	7612748002036	82
2000803	PresenceLight 180 BK	7612748002050	108
2000804	PresenceLight 180 SR	7612748002067	108
2009000	PresenceLight 360B-KNX WH	7612748003750	202
2009050	PresenceLight 180B-KNX WH	7612748003835	210
2009812	PresenceLight 360B-KNX BK	7612748003767	202
2009813	PresenceLight 360B-KNX SR	7612748003774	202
2009815	PresenceLight 180B-KNX BK	7612748003842	210
2009816	PresenceLight 180B-KNX SR	7612748003859	210
2010001	compact office DIM	7612748000773	88
2010010	compact office DALI WH	7612748004054	90
2010011	compact office DALI BK	7612748004061	90
2010012	compact office DALI SR	7612748004078	90
2010080	compact passimo WH	7612748003354	94
2010090	compact passage	7612748001626	92
2010803	compact office DIM BK	7612748002715	88
2010804	compact office DIM SR	7612748002722	88
2010806	compact passage BK	7612748002746	92
2010807	compact passage SR	7612748002753	92
2010809	compact passimo BK	7612748003361	94
2010810	compact passimo SR	7612748003378	94
2014000	compact office 24V	7612748001039	112
2014001	compact office 24V LUX	7612748001121	114
2014090	compact passage 24 V	7612748001725	116
2014800	compact office 24V BK	7612748002777	112
2014801	compact office 24V SR	7612748002784	112
2014803	compact office 24V LUX BK	7612748002807	114
2014804	compact office 24V LUX SR	7612748002814	114
2014806	compact passage 24V BK	7612748002838	116
2014807	compact passage 24V SR	7612748002845	116
2019280	compact passimo KNX WH	7612748003439	204
2019290	compact passage KNX	7612748001732	204
2019803	compact passage KNX BK	7612748002890	204
2019804	compact passage KNX SR	7612748002906	204
2019809	compact passimo KNX BK	7612748003446	204
2019810	compact passimo KNX SR	7612748003453	204
2020050	ECO-IR 180A	7612748000476	110
2020401	ECO-IR 360 DUAL-C NT	7612748000872	98
2020809	ECO-IR 180A BK	7612748002111	110
2020810	ECO-IR 180A SR	7612748002128	110
2020815	ECO-IR DUAL-C NT BK	7612748002173	98
2020816	ECO-IR DUAL-C NT SR	7612748002180	98
2024000	ECO-IR 360-24V	7612748000544	118
2024050	ECO-IR 180-24V	7612748000537	120
2024800	ECO-IR 360-24V BK	7612748002203	118
2024801	ECO-IR 360-24V SR	7612748002210	118
2024803	ECO-IR 180-24V BK	7612748002234	120
2024804	ECO-IR 180-24V SR	7612748002241	120
2030102	PlanoCentro 101-EWH	7612748002456	102
2030103	PlanoCentro 101-EBK	7612748002463	102
2030104	PlanoCentro 101-ESR	7612748002470	102
2030202	PlanoCentro 101-UWH	7612748002494	102

Art.-No.	Type	EAN/GTIN	Page
2030203	PlanoCentro 101-UBK	7612748002500	102
2030204	PlanoCentro 101-USR	7612748002517	102
2030302	PlanoCentro 300-EWH	7612748003187	104
2030303	PlanoCentro 300-EBK	7612748003194	104
2030304	PlanoCentro 300-ESR	7612748003200	104
2030402	PlanoCentro 300-UWH	7612748003224	104
2030403	PlanoCentro 300-UBK	7612748003231	104
2030404	PlanoCentro 300-USR	7612748003248	104
2030502	PlanoCentro 201-EWH	7612748003095	104
2030503	PlanoCentro 201-EBK	7612748003101	104
2030504	PlanoCentro 201-ESR	7612748003118	104
2030602	PlanoCentro 201-UWH	7612748003132	104
2030603	PlanoCentro 201-UBK	7612748003149	104
2030604	PlanoCentro 201-USR	7612748003156	104
2040102	PlanoCentro 000-EWH	7612748003279	102
2040103	PlanoCentro 000-EBK	7612748003286	102
2040104	PlanoCentro 000-ESR	7612748003293	102
2040202	PlanoCentro 000-UWH	7612748003316	102
2040203	PlanoCentro 000-UBK	7612748003323	102
2040204	PlanoCentro 000-USR	7612748003330	102
2059102	PlanoCentro EWH-A KNX	7612748003644	208
2059103	PlanoCentro EBK-A KNX	7612748003651	208
2059104	PlanoCentro ESR-A KNX	7612748003668	208
2059202	PlanoCentro UWH-A KNX	7612748003682	208
2059203	PlanoCentro UBK-A KNX	7612748003699	208
2059204	PlanoCentro USR-A KNX	7612748003705	208
2070005	thePrema P360-101 UP WH	7612748004337	100
2070006	thePrema P360-101 UP GR	7612748004344	100
2070030	thePrema P360 Slave UP WH	7612748004535	100
2070031	thePrema P360 Slave UP GR	7612748004542	100
2070500	thePrema S360-100 UP WH	7612748004412	96
2070501	thePrema S360-100 UP GR	7612748004429	96
2070505	thePrema S360-101 UP WH	7612748004375	96
2070506	thePrema S360-101 UP GR	7612748004382	96
2070530	thePrema S360 Slave UP WH	7612748004573	96
2070531	thePrema S360 Slave UP GR	7612748004580	96
2079000	thePrema P360 KNX UP WH	7612748004450	206
2079001	thePrema P360 KNX UP GR	7612748004467	206
2079500	thePrema S360 KNX UP WH	7612748004498	206
2079502	thePrema S360 KNX UP GR	7612748004504	206
2280577	SUD 228 II	4003468228012	244
2690008	SYN 269 h	4003468260012	44
2850033	SUL 285/2 T	4003468285022	48
2890008	SUL 289 h	4003468280089	44
2890033	SUL 289 g	4003468280096	44
3450730	TM 345 B	4003468340103	54
3450731	TM 345 M	4003468340110	54
3660002	RAMSES 366/1 top	4003468360217	158
3660052	RAMSES 366/2 top	4003468360293	158
4000000	LUXOR 400	4003468400005	230
4020000	LUXOR 402	4003468402009	230
4040000	LUXOR 404	4003468404003	230
4050000	LUXOR 405	4003468405000	232
4080100	LUXOR 408 S	4003468408032	233
4090100	LUXOR 409 S	4003468409039	233
4110000	LUXOR 411	4003468411001	234
4120000	LUXOR 412	4003468412008	234
4130000	LUXOR 413	4003468413005	234
4140000	LUXOR 414	4003468414002	238

Index 2014/2015

Numerical 4260000 ... 8139503

Art.-No.	Type	EAN/GTIN	Page
4260000	LUXOR 426	4003468426005	236
4900273	HMT 6 KNX	4003468490532	195
4900274	HMT 12 KNX	4003468490549	195
4910204	RMG 4 S KNX	4003468491041	181
4910205	RME 4 S KNX	4003468491058	181
4910206	RMG 4 C-load KNX	4003468491065	180
4910207	RME 4 C-load KNX	4003468491072	180
4910210	HMG 4 KNX	4003468491102	194
4910211	HME 4 KNX	4003468491119	194
4910230	BMG 6 KNX	4003468491300	189
4910231	BME 6 KNX	4003468491317	189
4910250	JMG 4 S KNX	4003468491508	188
4910251	JME 4 S KNX	4003468491515	188
4910270	DMG 2 S KNX	4003468491706	186
4910271	DME 2 S KNX	4003468491713	186
4910272	DMB 2 S KNX	4003468491720	186
4910273	SMG 2 S KNX	4003468491737	182
4910274	SME 2 S KNX	4003468491744	182
4920200	FCA 1 KNX	4003468492000	199
4930210	RMG 4 I KNX	4003468493083	178
4930215	RME 4 I KNX	4003468493090	178
4930220	RMG 8 S KNX	4003468493069	179
4930225	RME 8 S KNX	4003468493076	179
4930270	DMG 2 T KNX	4003468490006	184
4930275	DME 2 T KNX	4003468490013	184
4930279	DMB 1 T KNX	4003468490020	184
4969202	TA 2 KNX	4003468496022	190
4969204	TA 4 KNX	4003468496046	190
4969206	TA 6 KNX	4003468496060	190
4990003	LUXOR Set 3	4003468499030	239
4990004	LUXOR Set 4	4003468499047	239
4990005	LUXOR Set 5	4003468499054	239
5009200	OSIRIA 220 AR KNX	4003468500057	226
5009210	OSIRIA 230 AR KNX	4003468500071	226
5009211	OSIRIA 230 SR KNX	4003468500088	226
5009223	OSIRIA 232 BQ KNX	4003468500293	227
5009230	OSIRIA 240 AR KNX	4003468500132	226
5009231	OSIRIA 240 SR KNX	4003468500149	226
5009250	OSIRIA 242 AR KNX	4003468500194	227
5009251	OSIRIA 242 SR KNX	4003468500200	227
5009252	OSIRIA 251 BQ KNX	4003468500279	227
5320001	DIMAX 532 plus	4003468530016	68
5340001	DIMAX 534 plus	4003468530009	68
5750014	PHARAO-II 14 (AC)	4003468575093	242
5750024	PHARAO-II 24 (AC)	4003468575116	242
5750210	PHARAO-II 10 (AC)	4003468575185	242
5759015	PHARAO-II 15 (DC)	4003468575109	242
5759025	PHARAO-II 25 (DC)	4003468575123	242
5759102	PHARAO-II extension 4AR (AC)	4003468575154	242
5759211	PHARAO-II 11 (DC)	4003468575192	242
6009200	ZS 600 DCF KNX	4003468600009	220
6080101	TR 608 top2 S	4003468600115	22
6090101	TR 609 top2 S	4003468600122	22
6100100	TR 610 top2	4003468611814	16
6100110	TR 610 top2 G	4003468612590	16
6104100	TR 610 top2 24V	4003468613009	16
6110100	TR 611 top2	4003468611821	18
6110300	TR 611 top2 RC	4003468611838	18
6114100	TR 611 top2 24V	4003468613016	18

Art.-No.	Type	EAN/GTIN	Page
6114300	TR 611 top2 RC 24V	4003468612231	18
6120100	TR 612 top2	4003468611845	16
6124100	TR 612 top2 24V	4003468613023	16
6220100	TR 622 top2	4003468611852	18
6224100	TR 622 top2 24V	4003468613030	18
6350100	TR 635 top2	4003468630006	28
6360100	TR 636 top2	4003468630020	28
6410100	TR 641 top2	4003468641088	24
6410300	TR 641 top2 RC	4003468641118	24
6414300	TR 641 top2 24V	4003468641125	24
6420100	TR 642 top2	4003468642085	24
6420300	TR 642 top2 RC	4003468642108	24
6424300	TR 642 top2 24V	4003468642115	24
6440100	TR 644 top2	4003468644232	24
6440300	TR 644 top2 RC	4003468644218	24
6489210	TR 648 top2 RC-DCF KNX	4003468640005	218
6489212	TR 648 top2 RC KNX	4003468640012	218
6490104	EM 4 top2	4003468649008	26
6490900	EM LAN top2	4003468649015	26
6840100	TR 684-1 top2	4003468680254	30
6840101	TR 684-2 top2	4003468680261	30
7010001	RAMSES 701	4003468701140	166
7020001	RAMSES 702	4003468702055	166
7030001	RAMSES 703	4003468703052	166
7040001	RAMSES 704	4003468704028	166
7050001	RAMSES 705	4003468705032	166
7060001	RAMSES 706	4003468706022	166
7070001	RAMSES 707	4003468707029	166
7080001	RAMSES 708	4003468708026	166
7090001	RAMSES 709	4003468709030	166
7129200	RAMSES 712 KNX	4003468712009	193
7139201	RAMSES 713 S KNX	4003468713013	192
7139202	RAMSES 713 FC KNX	4003468713020	198
7140002	RAMSES 714	4003468714126	170
7140016	RAMSES 714 A	4003468714133	170
7150002	SOTHS 715	4003468715024	175
7160101	AMUN 716 R	4003468716250	174
7169200	AMUN 716 KNX	4003468716205	197
7210030	RAMSES 721	4003468721018	162
7220030	RAMSES 722	4003468722015	162
7220801	RAMSES 722 s	4003468722022	160
7250030	RAMSES 725	4003468725016	162
7319200	CHEOPS drive KNX	4003468731000	196
7329201	CHEOPS control KNX	4003468732014	196
7410130	RAMSES 741	4003468741023	168
7410131	RAMSES 741 RA	4003468741030	168
7460130	RAMSES 746	4003468746028	168
7460131	RAMSES 746 RA	4003468746035	168
7480130	RAMSES 748	4003468748022	168
7480131	RAMSES 748 RA	4003468748039	168
7510131	RAMSES 751 RA	4003468751008	170
7820030	RAMSES 782	4003468782019	162
7840030	RAMSES 784	4003468784013	162
7840801	RAMSES 784 s	4003468784020	160
7849407	RAMSES 784 HF Set 1	4003468784143	162
8119132	RAMSES 811 top2	4003468811139	146
8120132	RAMSES 812 top2	4003468812037	148
8139501	RAMSES 813 top2 HF Set 1	4003468813218	150
8139503	RAMSES 813 top2HF Set A	4003468813164	150

Art.-No.	Type	EAN/GTIN	Page
8139505	RAMSES 813 top2 HF Set S	4003468813188	150
8169132	RAMSES 816 top2 OT	4003468810002	154
8269210	VARIA 826 S WH KNX	4003468820049	191
8269211	VARIA 826 S BK KNX	4003468820056	191
8319132	RAMSES 831 top2	4003468831052	146
8320132	RAMSES 832 top2	4003468832035	148
8339501	RAMSES 833 top2 HF Set 1	4003468833049	152
8339502	RAMSES 833 top2 HF Set 2	4003468833056	152
8559200	KNX-OT-Box	4003468855034	223
8569132	RAMSES 856 top2 OT	4003468850084	156
9070001	Front panel kit	4003468900109	246
9070008	Surface-mounted light sensor	4003468900574	253
9070011	Analogue flush-mounted light sensor	4003468900604	252
9070041	Cover 55 x 55 for BZ	4003468902004	248
9070042	Plug-in socket BZ	4003468900697	248
9070043	Clamp BZ	4003468900703	248
9070049	Wall mounting kit 70 mm	4003468900727	246
9070050	Wall mounting kit 52,5 mm	4003468900734	246
9070061	Terminal cover 52,5 mm	4003468900802	246
9070064	Wall mounting kit 35 mm	4003468900826	246
9070065	Wall mounting kit 17,5 mm	4003468900833	246
9070071	Snap-on mounting 72 x 72	4003468900895	246
9070074	Cover 72 x 72 for BZ	4003468900925	248
9070075	Front kit BZ 142-3	4003468900932	248
9070191	External temperature sensor 1	4003468901915	254
9070192	External temperature sensor 2	4003468901922	254
9070212	Adapter plate RAMSES 714	4003468900796	254
9070245	Adapter RAMSES 72x/78x	4003468902059	253
9070252	Programming cable PHARAO	4003468902851	256
9070271	Antenna DCF77 KNX	4003468903056	247
9070321	Temperature sensor	4003468903360	254
9070328	Memory module PHARAO-II	4003468903414	256
9070329	GSM cable PHARAO-II	4003468903483	256
9070364	Power supply KNX 640 mA	4003468903582	224
9070367	Diode module	4003468903605	253
9070371	Flow temperature sensor RAMSES	4003468903629	254
9070379	Plunge sensor RAMSES	4003468903711	255
9070380	Mast mounting weather station	4003468903742	256
9070397	Interface USB KNX	4003468903995	225
9070404	Memory card OBELISK top2	4003468904053	247
9070409	PC set OBELISK top2	4003468904015	247
9070410	Antenna top2 RC-DCF	4003468904077	247
9070415	Digital surface-mounted light sensor	4003468904268	253
9070416	Analogue surface-mounted light sensor	4003468904275	253
9070437	Valve adapter VA 80	4003468904237	255
9070438	Actuator ALPHA 4 230 V	4003468904244	255
9070439	Actuator ALPHA 4 24 V	4003468904251	255
9070456	Digital flush-mounted light sensor	4003468904343	253
9070459	Temperature sensor RAMSES IP 65	4003468903810	254
9070463	Outdoor temperature sensor	4003468900871	254
9070480	Adapter plate RAMSES 70x	4003468904299	253
9070486	Adapter plate LUNA star	4003468907559	252
9070494	Power unit CO2-sensor	4003468904534	256
9070504	Surface frame LUXA 103-200	4003468904367	251
9070511	Surface frame ECO-IR 180	7612748000735	249
9070512	Surface frame ECO-IR 360	7612748000728	249
9070513	Surface frame PresenceLight	7612748001145	248
9070514	Surface frame compact	7612748000711	248
9070515	clic	7612748000919	251

Art.-No.	Type	EAN/GTIN	Page
9070516	QuickFix square cover	7612748000575	250
9070517	QuickFix round cover	7612748000568	250
9070518	QuickFix concrete square cover	7612748000971	250
9070519	QuickFix concrete round cover	7612748000964	249
9070521	QuickFix concrete flush-mounted box	7612748000742	250
9070522	QuickFix flush-mounted housing	7612748000551	250
9070523	RC filter	7612748001701	251
9070531	QuickSafe	7612748000582	250
9070535	SPHINX corner angle	4003468904398	251
9070536	SPHINX RC 104 Pro	4003468904404	252
9070537	SPHINX RC 105 Pro	4003468904411	252
9070538	SPHINX RC 104	4003468904428	252
9070539	SPHINX RC 105	4003468904435	252
9070601	Central part RAMSES 746	4003468904572	256
9070602	Central part RAMSES 741/748	4003468904589	256
9070603	Frame RAMSES 74x	4003468904596	255
9070605	Socket RAMSES	4003468904657	253
9070610	Antenna top2 RC-GPS	4003468903254	247
9070675	SendoPro 868-A	7612748002524	250
9070689	Junction casing, 115 x 115 x 100 mm	7612748002661	249
9070699	Power supply 320 mA KNX	4003468904541	224
9070701	Power supply KNX 160 mA	4003468904558	224
9070712	OT-Box Standard	4003468904763	254
9070722	DALI Gateway KNX	4003468900048	222
9070731	PlanoBox 1WH	7612748003873	249
9070736	PlanoSet RQ EWH	7612748004696	249
9070740	PlanoSet RR EWH	7612748004658	249
9070880	Line coupler S KNX	4003468900253	225
9070892	Power unit top2 GPS	4003468904718	247
9070902	Corner angle theLuxa S WH	4003468900277	251
9070903	Corner angle theLuxa S BK	4003468900284	251
9070906	Spacer theLuxa S WH	4003468900338	251
9070907	Spacer theLuxa S BK	4003468900345	251
9070910	theSenda P	4003468900475	252
9070911	theSenda S	4003468900505	252
9070912	Surface frame 110A WH	7612748004900	248
9070917	Ceiling installation box 73A	7612748004979	249
9075141	Multiple contact strip	4003468904688	246
9079330	Power unit 24 V DC	4003468903520	256

Index 2014/2015

List of discontinued models

Discontinued models		Successors	
Type	Art.-No.	Type	Art.-No.
ELPA 4	0040001	ELPA 6/ELPA 1	0060002/0010002
TR 030 top	0300002	No successor	–
LUXA 101-360	1010460	theLuxa S360 WH	1010510
LUXA 101-180 white	1010961	theLuxa S180 WH	1010505
LUXA 101-180 black	1010962	theLuxa S180 BK	1010506
LUXA 101-150 white	1010963	theLuxa S150 WH	1010500
LUXA 101-150 black	1010964	theLuxa S150 BK	1010501
SPHINX 331 KNX	1079211	SPHINX 331 S KNX	1079215
SPHINX 332 KNX	1079212	SPHINX 332 S KNX	1079216
compact office (Colour: White)	2010000	thePrema S360-101 UP WH (Colour: White)	2070505
compact office BK (Colour: Black)	2010800	thePrema S360-101 UP GR (Colour: Grey)	2070506
compact office SR (Colour: Silver)	2010801	thePrema S360-101 UP GR (Colour: Grey)	2070506
compact office EIB (Colour: White)	2019200	thePrema S360 KNX UP WH (Colour: White)	2079500
compact office EIB BK (Colour: Black)	2019800	thePrema S360 KNX UP GR (Colour: Grey)	2079501
compact office EIB SR (Colour: Silver)	2019801	thePrema S360 KNX UP GR (Colour: Grey)	2079501
ECO-IR 360A (Colour: White)	2020000	thePrema P360-101 UP WH (Colour: White)	2070005
ECO-IR 360A BK (Colour: Black)	2020806	thePrema P360-101 UP GR (Colour: Grey)	2070006
ECO-IR 360A SR (Colour: Silver)	2020807	thePrema P360-101 UP GR (Colour: Grey)	2070006
ECO-IR 360C NT (Colour: White)	2020400	thePrema P360-101 UP WH (Colour: White)	2070005
ECO-IR 360C NT BK (Colour: Black)	2020812	thePrema P360-101 UP GR (Colour: Grey)	2070006
ECO-IR 360C NT SR (Colour: Silver)	2020813	thePrema P360-101 UP GR (Colour: Grey)	2070006
ECO-IR DUAL-EIB (Colour: White)	2029200	thePrema P360 KNX UP WH (Colour: White)	2079000
ECO-IR DUAL-EIB BK (Colour: Black)	2029800	thePrema P360 KNX UP GR (Colour: Grey)	2079001
ECO-IR DUAL-EIB SR (Colour: Silver)	2029801	thePrema P360 KNX UP GR (Colour: Grey)	2079001
ECO-IR 360EIB-AC (Colour: White)	2029201	thePrema P360 KNX UP WH (Colour: White)	2079000
ECO-IR 360EIB-AC BK (Colour: Black)	2029803	thePrema P360 KNX UP GR (Colour: Grey)	2079001
ECO-IR 360EIB-AC SR (Colour: Silver)	2029804	thePrema P360 KNX UP GR (Colour: Grey)	2079001
RMG 8 KNX	4900251	Successor available Q3/2014	–
RME 8 KNX	4900252	Successor available Q3/2014	–
DIMAX 532	5320000	DIMAX 532 plus	5320001
DIMAX 534	5340000	DIMAX 534 plus	5340001
TR 608 top2	6080100	TR 608 top2 S	6080101
TR 609 top2	6090100	TR 609 top2 S	6090101
VARIA 826 WH KNX	8269200	VARIA 826 S WH KNX	8269210
VARIA 826 BK KNX	8269201	VARIA 826 S BK KNX	8269211
PC-Software PHARAO	9070251	Download at www.theben.de	–
BCU Busankoppler KNX	9070524	No successor	–
QuickSet plus	9070532	SendoPro 868-A	9070675
SendoClic	9070690	theSenda S	9070911

Theben AG

General Conditions

General conditions for the supply of products and services of the electrical and electronics industry („GL“)

for commercial transactions between businesses

I. General provisions

1. Legal relations between Supplier and Purchaser in connection with supplies and/or services of the Supplier (hereinafter referred to as “Supplies”) shall be solely governed by the present GL. The Purchaser’s general terms and conditions shall apply only if expressly accepted by the Supplier in writing. The scope of delivery shall be determined by the congruent mutual written declarations.

2. The Supplier herewith reserves any industrial property rights and/or copyrights pertaining to its cost estimates, drawings and other documents (hereinafter referred to as “Documents”). The Documents shall not be made accessible to third parties without the Supplier’s prior consent and shall, upon request, be returned without undue delay to the Supplier if the contract is not awarded to the Supplier. Sentences 1 and 2 shall apply mutatis mutandis to the Purchaser’s Documents; these may, however, be made accessible to those third parties to whom the Supplier has rightfully subcontracted Supplies.

3. The Purchaser has the non-exclusive right to use standard software and firmware, provided that it remains unchanged, is used within the agreed performance parameters, and on the agreed equipment. Without express agreement the Purchaser may make one back-up copy of standard software.

4. Partial deliveries are allowed, unless they are unreasonable to accept for the Purchaser.

5. The term „claim for damages“ used in the present GL also includes claims for indemnification for use-less expenditure.

II. Prices, terms of payment, and set-off

1. Prices are ex works and excluding packaging; value added tax shall be added at the then applicable rate.

2. If the Supplier is also responsible for assembly or erection and unless otherwise agreed, the Purchaser shall pay the agreed remuneration and any incidental costs required, e. g. for traveling and transport as well as allowances.

3. Payments shall be made free Supplier’s paying office.

4. The Purchaser may set off only those claims which are undisputed or nonappealable.

III. Retention of title

1. The items pertaining to the Supplies (“Retained Goods”) shall remain the Supplier’s property until each and every claim the Supplier has against the Purchaser on account of the business relationship has been fulfilled. If the combined value of the Supplier’s security interests exceeds the value of all secured claims by more than 10 %, the Supplier shall release a corresponding part of the security interest if so requested by the Purchaser; the Supplier shall be entitled to choose which security interest it wishes to release.

2. For the duration of the retention of title, the Purchaser may not pledge the Retained Goods or use them as security, and resale shall be possible only for resellers in the ordinary course of their business and only on condition that the reseller receives payment from its customer or makes the transfer of property to the customer dependent upon the customer fulfilling its obligation to effect payment.

3. The Purchaser shall inform the Supplier forthwith of any seizure or other act of intervention by third parties.

4. Where the Purchaser fails to fulfil its duties, fails to make payment due, or otherwise violates its obligations the Supplier shall be entitled to rescind the contract and take back the Retained Goods in the case of continued failure following expiry of a reasonable remedy period set by the Supplier; the statutory provisions providing that a remedy period is not needed shall be unaffected. The Purchaser shall be obliged to return the Retained Goods. The fact that the Supplier takes back Retained Goods and/or exercises the retention of title, or has the Retained Goods seized, shall not be construed to constitute a rescission of the contract, unless the Supplier so expressly declares.

IV. Time for supplies; delay

1. Times set for Supplies shall only be binding if all Documents to be furnished by the Purchaser, necessary permits and approvals, especially concerning plans, are received in time and if agreed terms of payment and other obligations of the Purchaser are fulfilled. If these conditions are not fulfilled in time, times set shall be extended reasonably; this shall not apply if the Supplier is responsible for the delay.

2. If non-observance of the times set is due to force majeure such as mobilization, war, rebellion or similar events, e. g. strike or lockout, such time shall be extended accordingly. The same shall apply if the Supplier does not receive its own supplies in due time or in due form.

3. If the Supplier is responsible for the delay (hereinafter referred to as “Delay”) and the Purchaser has demonstrably suffered a loss therefrom, the Purchaser may claim a compensation as liquidated damages of 0.5 % for every completed week of Delay, but in no case more than a total of 5 % of the price of that part of the Supplies which due to the Delay could not be put to the intended use.

4. Purchaser’s claims for damages due to delayed Supplies as well as claims for damages in lieu of performance exceeding the limits specified in No. 3 above are excluded in all cases of delayed Supplies, even upon expiry of a time set to the Supplier to effect the Supplies. This shall not apply in cases of mandatory liability based on intent, gross negligence, or due to loss of life, bodily injury or damage to health. Rescission of the contract by the Purchaser based on statute is limited to cases where the Supplier is responsible for the delay. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser.

5. At the Supplier’s request, the Purchaser shall declare within a reasonable period of time whether it, due to the delayed Supplies, rescinds the contract or insists on the delivery of the Supplies.

6. If dispatch or delivery, due to Purchaser’s request, is delayed by more than one month after notification of the readiness for dispatch was given, the Purchaser may be charged, for every additional month commenced, storage costs of 0.5 % of the price of the items of the Supplies, but in no case more than a total of 5 %. The parties to the contract may prove that higher or, as the case may be, lower storage costs have been incurred.

V. Passing of risk

1. Even where delivery has been agreed freight free, the risk shall pass to the Purchaser as follows:

a) if the Supplies do not include assembly or erection, at the time when the Supplies are shipped or picked up by the carrier. Upon the Purchaser’s request, the Supplier shall insure the Supplies against the usual risks of transport at the Purchaser’s expense;

b) if the Supplies include assembly or erection, at the day of taking over in the Purchaser’s own works or, if so agreed, after a fault-free trial run.

2. The risk shall pass to the Purchaser if dispatch, delivery, the start or performance of assembly or erection, the taking over in the Purchaser’s own works, or the trial run is delayed for reasons for which the Purchaser is responsible or if the Purchaser has otherwise failed to accept the Supplies.

VI. Assembly and erection

Unless otherwise agreed in written form, assembly and erection shall be subject to the following provisions:

1. The Purchaser shall provide at its own expense and in due time:

a) all earth and construction work and other ancillary work outside the Supplier’s scope, including the necessary skilled and unskilled labor, construction materials and tools,

b) the equipment and materials necessary for assembly and commissioning such as scaffolds, lifting equipment and other devices as well as fuels and lubricants,

c) energy and water at the point of use including connections, heating and lighting,

d) suitable dry and lockable rooms of sufficient size adjacent to the site for the storage of machine parts, apparatus, materials, tools, etc. and adequate working and recreation rooms for the erection personnel, including sanitary facilities as are appropriate in the specific circumstances; furthermore, the Purchaser shall take all measures it would take for the protection of its own possessions to protect the possessions of the Supplier and of the erection personnel at the site,

e) protective clothing and protective devices needed due to particular conditions prevailing on the specific site.

2. Before the erection work starts, the Purchaser shall unsolicitedly make available any information required concerning the location of concealed electric power, gas and water lines or of similar installations as well as the necessary structural data.

3. Prior to assembly or erection, the materials and equipment necessary for the work to start must be available on the site of assembly or erection and any preparatory work must have advanced to such a degree that assembly or erection can be started as agreed and carried out without interruption. Access roads and the site of assembly or erection must be level and clear.

4. If assembly, erection or commissioning is delayed due to circumstances for which the Supplier is not responsible, the Purchaser shall bear the reasonable costs incurred for idle times and any additional traveling expenditure of the Supplier or the erection personnel.

5. The Purchaser shall attest to the hours worked by the erection personnel towards the Supplier at weekly intervals and the Purchaser shall immediately confirm in written form if assembly, erection or commissioning has been completed.

6. If, after completion, the Supplier demands acceptance of the Supplies, the Purchaser shall comply therewith within a period of two weeks. In default thereof, acceptance is deemed to have taken place. Acceptance is also deemed to have been effected if the Supplies are put to use, after completion of an agreed test phase, if any.

VII. Receiving supplies

The Purchaser shall not refuse to receive Supplies due to minor defects.

VIII. Defects as to quality

The Supplier shall be liable for defects as to quality ("Sachmängel", hereinafter referred to as "Defects"), as follows:

1. Defective parts or defective services shall be, at the Supplier's discretion, repaired, replaced or provided again free of charge, provided that the reason for the Defect had already existed at the time when the risk passed.
2. Claims for repair or replacement are subject to a statute of limitations of 12 months calculated from the start of the statutory statute of limitations; the same shall apply mutatis mutandis in the case of rescission and reduction. This shall not apply where longer periods are prescribed by law according to Sec. 438 para. 1 No. 2 (buildings and things used for a building), Sec. 479 para. 1 (right of recourse), and Sec. 634a para. 1 No. 2 (defects of a building) German Civil Code ("BGB"), in the case of intent, fraudulent concealment of the Defect or non-compliance with guaranteed characteristics (Beschaffenheitsgarantie). The legal provisions regarding suspension of the statute of limitations ("Ablaufhemmung", "Hemmung") and recommencement of limitation periods shall be unaffected.
3. Notifications of Defect by the Purchaser shall be given in written form without undue delay.
4. In the case of notification of a Defect, the Purchaser may withhold payments to an amount that is in a reasonable proportion to the Defect. The Purchaser, however, may withhold payments only if the subject-matter of the notification of the Defect involved is justified and incontestable. The Purchaser has no right to withhold payments to the extent that its claim of a Defect is time-barred. Unjustified notifications of Defect shall entitle the Supplier to demand reimbursement of its expenses by the Purchaser.
5. The Supplier shall be given the opportunity to repair or to replace the defective good ("Nacherfüllung") within a reasonable period of time.
6. If repair or replacement is unsuccessful, the Purchaser is entitled to rescind the contract or reduce the remuneration; any claims for damages the Purchaser may have according to No. 10 shall be unaffected.
7. There shall be no claims based on Defect in cases of insignificant deviations from the agreed quality, of only minor impairment of usability, of natural wear and tear, or damage arising after the passing of risk from faulty or negligent handling, excessive strain, unsuitable equipment, defective civil works, inappropriate foundation soil, or claims based on particular external influences not assumed under the contract, or from non-reproducible software errors. Claims based on defects attributable to improper modifications or repair work carried out by the Purchaser or third parties and the consequences thereof are likewise excluded.
8. The Purchaser shall have no claim with respect to expenses incurred in the course of supplementary performance, including costs of travel, transport, labor, and material, to the extent that expenses are increased because the subject-matter of the Supplies has subsequently been brought to another location than the Purchaser's branch office, unless doing so complies with the normal use of the Supplies.

9. The Purchaser's right of recourse against the Supplier pursuant to Sec. 478 BGB is limited to cases where the Purchaser has not concluded an agreement with its customers exceeding the scope of the statutory provisions governing claims based on Defects. Moreover, No. 8 above shall apply mutatis mutandis to the scope of the right of recourse the Purchaser has against the Supplier pursuant to Sec. 478 para. 2 BGB.

10. The Purchaser shall have no claim for damages based on Defects. This shall not apply to the extent that a Defect has been fraudulently concealed, the guaranteed characteristics are not complied with, in the case of loss of life, bodily injury or damage to health, restrictions to liberty and/or intentionally or grossly negligent breach of contract on the part of the Supplier. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser. Any other or additional claims of the Purchaser exceeding the claims provided for in this Article VIII, based on a Defect, are excluded.

IX. Industrial property rights and copyright; defects in title

1. Unless otherwise agreed, the Supplier shall provide the Supplies free from third parties' industrial property rights and copyrights (hereinafter referred to as "IPR") with respect to the country of the place of delivery only. If a third party asserts a justified claim against the Purchaser based on an infringement of an IPR by the Supplies made by the Supplier and used in conformity with the contract, the Supplier shall be liable to the Purchaser within the time period stipulated in Article VIII No. 2 as follows:

- a) The Supplier shall choose whether to acquire, at its own expense, the right to use the IPR with respect to the Supplies concerned or whether to modify the Supplies such that they no longer infringe the IPR or replace them. If this would be impossible for the Supplier under reasonable conditions, the Purchaser may rescind the contract or reduce the remuneration pursuant to the applicable statutory provisions.
- b) The Supplier's liability to pay damages is governed by Article XI.
- c) The above obligations of the Supplier shall apply only if the Purchaser (i) immediately notifies the Supplier of any such claim asserted by the third party in written form, (ii) does not concede the existence of an infringement and (iii) leaves any protective measures and settlement negotiations to the Supplier's discretion. If the Purchaser stops using the Supplies in order to reduce the damage or for other good reason, it shall be obliged to point out to the third party that no acknowledgement of the alleged infringement may be inferred from the fact that the use has been discontinued.

2. Claims of the Purchaser shall be excluded if it is responsible for the infringement of an IPR.

3. Claims of the Purchaser are also excluded if the infringement of the IPR is caused by specifications made by the Purchaser, by a type of use not foreseeable by the Supplier or by the Supplies being modified by the Purchaser or being used together with products not provided by the Supplier.

4. In addition, with respect to claims by the Purchaser pursuant to No. 1 a) above, Article VIII Nos. 4, 5, and 9 shall apply mutatis mutandis in the event of an infringement of an IPR.

5. Where other defects in title occur, Article VIII shall apply mutatis mutandis.

6. Any other claims of the Purchaser against the Supplier or its agents or any such claims exceeding the claims provided for in this Article IX, based on a defect in title, are excluded.

X. Impossibility of performance; adaption of contract

1. To the extent that delivery is impossible, the Purchaser is entitled to claim damages, unless the Supplier is not responsible for the impossibility. The Purchaser's claim for damages is, however, limited to an amount of 10 % of the value of the part of the Supplies which, owing to the impossibility, cannot be put to the intended use. This limitation shall not apply in the case of mandatory liability based on intent, gross negligence or loss of life, bodily injury or damage to health; this does not imply a change in the burden of proof to the detriment of the Purchaser. The Purchaser's right to rescind the contract shall be unaffected.

2. Where unforeseeable events within the meaning of Article IV No. 2 substantially change the economic importance or the contents of the Supplies or considerably affect the Supplier's business, the contract shall be adapted taking into account the principles of reasonableness and good faith. To the extent this is not justifiable for economic reasons, the Supplier shall have the right to rescind the contract. If the Supplier intends to exercise its right to rescind the contract, it shall notify the Purchaser thereof without undue delay after having realized the repercussions of the event; this shall also apply even where an extension of the delivery period has previously been agreed with the Purchaser.

XI. Other claims for damages; statute of limitations

1. The Purchaser has no claim for damages based on whatever legal reason, including infringement of duties arising in connection with the contract or tort.

2. The above shall not apply in the case of mandatory liability, e. g. under the German Product Liability Act ("Produkthaftungsgesetz"), in the case of intent, gross negligence, loss of life, bodily injury or damage to health, or breach of a condition which goes to the root of the contract ("wesentliche Vertragspflichten"). However, claims for damages arising from a breach of a condition which goes to the root of the contract shall be limited to the foreseeable damage which is intrinsic to the contract, unless caused by intent or gross negligence or based on liability for loss of life, bodily injury or damage to health. The above provision does not imply a change in the burden of proof to the detriment of the Purchaser.

3. To the extent that the Purchaser has a claim for damages, it shall be timebarred upon expiration of the statute of limitations pursuant to Article VIII No. 2. The same shall apply to the Purchaser's claims in connection with actions undertaken to avoid any damage (e. g. callback). In the case of claims for damages under the German Product Liability Act, the statutory statute of limitations shall apply.

XII. Venue and applicable law

1. If the Purchaser is a businessman, sole venue for all disputes arising directly or indirectly out of the contract shall be the Supplier's place of business. However, the Supplier may also bring an action at the Purchaser's place of business.

2. Legal relations existing in connection with this contract shall be governed by German substantive law, to the exclusion of the United Nations Convention on contracts for the International Sale of Goods (CISG).

XIII. Severability clause

The legal invalidity of one or more provisions of this Agreement in no way affects the validity of the remaining provisions. This shall not apply if it would be unreasonable for one of the parties to be obligated to continue the contract.

– as of June 2005 –

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9900600 0514 We reserve the right to make technical modifications and improvements.

