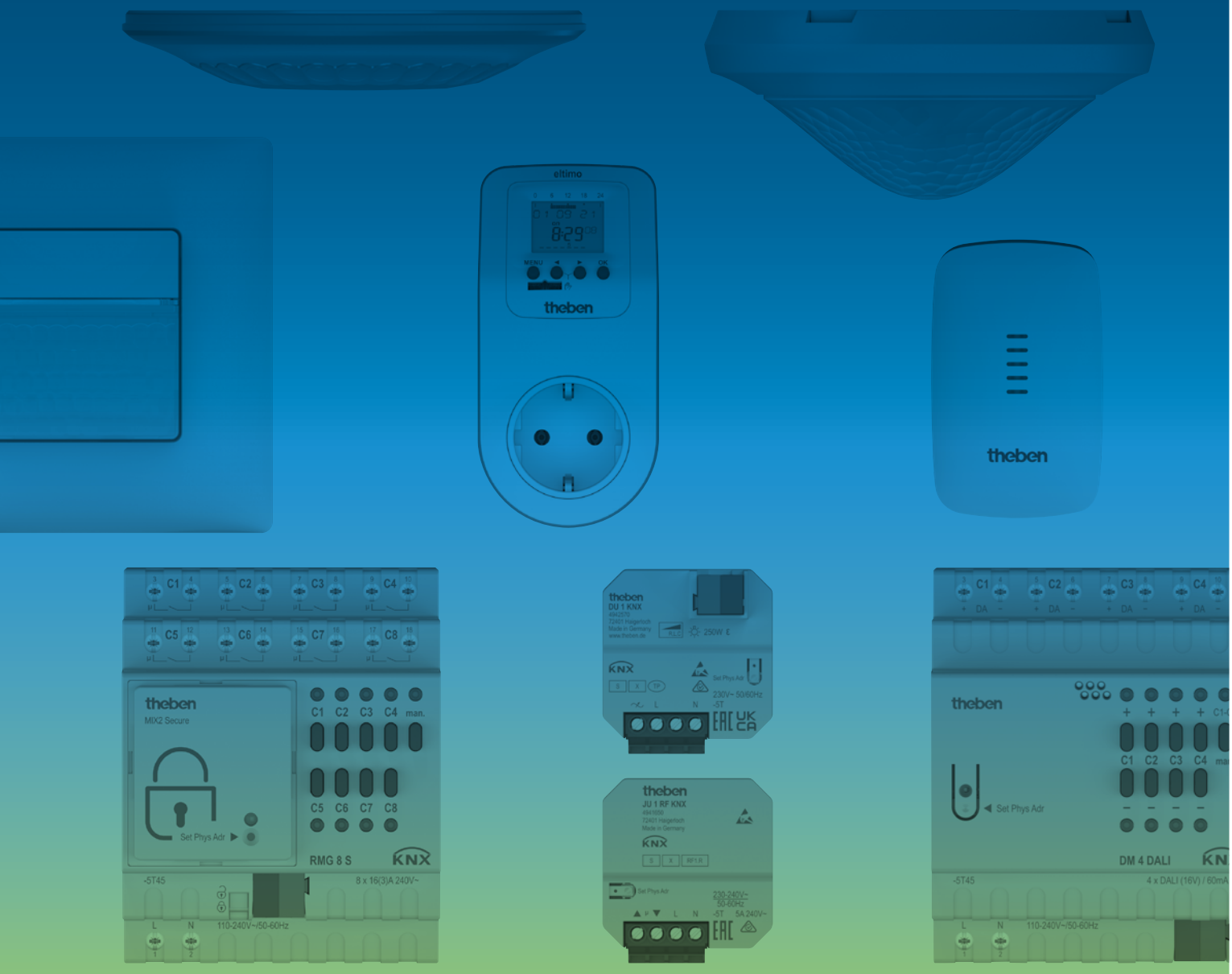
theben

Highlights #01 | 2022



Building Automation since 1921

Michael Matthesius
Chief Technology Officer

Paul Sebastian Schwenk
Chairman of the Board of Management

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Time and light control 48

More information at
www.theben.co.uk

Dear customers and partners,

With the Corona pandemic and the complex economic environment, 2021 was a challenging, but – thanks to our 100th anniversary – also an emotional and moving year. Along with the anniversary activities, 2021 also laid the foundation for many exciting product innovations.

Thomas Sell
Chief Sales Officer

For example, we developed the DALI-2 Room Solution as a complete single-room solution with HCL functionality. It allows DALI-2 lighting systems to be implemented as easily as broadcast. The optical presence detector thePixa detects the number of people in a room and where they are. This opens up completely new areas of application and brings impressive added value for architects, building operators and users. The versatile LUXA 103 presence detector family for indoor and outdoor use completely redefines the standard presence detector segment. And thanks to KNX Secure, all KNX components from Theben are optimally protected against data theft and tampering.

In this catalogue, you will find these as well as other new and numerous proven premium products. Do you have any questions regarding installation and usage? Our Youtube channel provides you with helpful tutorials and installation videos including valuable tips and tricks.

We look forward to continuing our collaboration and wish you a successful 2022.

The full program
for the intelligent buildings of tomorrow
Products, solutions and systems

Smart Home system

Since 1992, more from page 6

Weather station

Actuator technology

Operating controls

LUXORplug

Home and building control

Since 1992, more from page 15

Weather station

Actuator technology
Gateways
(KNX, DALI)

Operating controls

Presence detectors
(230 V, KNX, DALI-2)
Motion detectors
(230 V, KNX)

Presence & motion detectors, lighting

Since 2007, more from page 30

Motion detectors
(230 V, KNX)

Presence detectors
(230 V, KNX, DALI-2)
Presence sensors
(DALI-2)

LED lights
(with and without detectors,
can also be controlled remotely via an app)

Time, light & climate control

Since 1921, more from page 48

Time switches
Staircase time switches
Latching relays

Twilight switches

Dimmers

Thermostats
CO_2 sensors

Flexible colour control in the smart home
DALI broadcast actuator LUXORliving D4 DALI

With the DALI-2 certified actuator LUXORliving D4 DALI, up to 30 DALI devices per channel can be easily controlled via broadcast commands. Broadcast communication requires no DALI addressing or grouping and greatly simplifies start-up and maintenance. The 4-channel actuator also supports the control of colour and colour temperature of devices according to DALI Device Type 8 (DT8) in the smart home system: For example, the atmosphere in living rooms can be made more pleasant by colder or warmer light.

The highlights at a glance

- 4 channels
- 30 DALI EBs per channel
- Simple start-up and maintenance thanks to broadcast communication
- Support for colour and colour temperature control (Device Type 8) via push button or LUXORplay app
- Easy start-up with LUXORplug
- Conforms to DALI-2 standard

Description

- 4-way DALI actuator LUXORliving, DALI-2 certified
- Interface between bus system and DALI lighting system (Digital Addressable Lighting Interface)
- For controlling up to 30 DALI operating devices per channel via broadcast commands
- Enables very simple commissioning without the effort of addressing or grouping on the DALI side
- Even in the event of a fault, simple replacement of DALI control gear without further programming
- Internal DALI power supply with 60 mA output current per channel
- In addition to the classic functions such as switching, dimming, scenes, the DALI actuator also offers the possibility of colour and colour temperature control (Device Type 8)

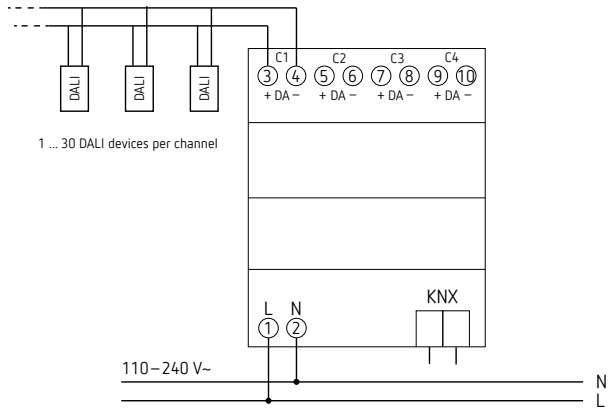
Product selection

Type	Article number
LUXORliving D4 DALI	4800300

Technical data

	LUXORliving D4 DALI
Operating voltage	110–240 V AC
Frequency	50–60 Hz
Stand-by consumption	0,7 W
Width	4 modules
DALI voltage	typ. 16 V DC, short-circuit proof, basic insulation (no SELV), Imax = 250 mA, Imin = 60 mA
Number of DALI devices	max. 30 per channel
Max. cable length DALI	300 m per channel
Ambient temperature	–5 °C ... +45 °C
Protection rating	IP 20
Protection class	II

Connection diagrams



Want to expand your smart home?
No problem!
LUXORliving flush-mounted wireless actuators

NEW

100% more range
200% more transmission power

With its new wireless actuators, Theben is offering a practical option to extend an existing LUXORliving smart home system. This means, for example, that extensions like winter gardens can be easily integrated into the existing wired system by wireless transmission. Thanks to the media coupler, you can easily link wired and wireless components.
Push buttons, window contacts and temperature sensors can be directly integrated via the inputs of the flush-mounted actuators.
And if you prefer a KNX installation in the future, you simply continue to use all LUXORliving products. Sure and safe!

Speaking of safety: Communication between the wireless components is of course encrypted. That leaves no opportunities open for data theft or tampering.

Wireless dimming actuator LUXORliving D1 S RF

The universal dimmer dimmer is convincing not only due to its automatic its automatic load detection, but also with even and stepless dimming of LED lamps.

Wireless switch actuator LUXORliving S1 S RF

The switch actuator is the flexible all-rounder for a wide range of applications thanks to its NO contact with zero-cross switching and a high switching capacity.

Wireless blind actuator LUXORliving J1 S RF

The blind actuator is suited for manual or automatic control of blinds, awnings, or roller blinds. Without extensive cabling.

Wireless heating actuator LUXORliving H1 S RF

The heating actuator is perfect for silent control of thermal actuators. Thanks to the integrated temperature monitoring, it helps to ensure increased operating safety, e.g. in the event of overload.

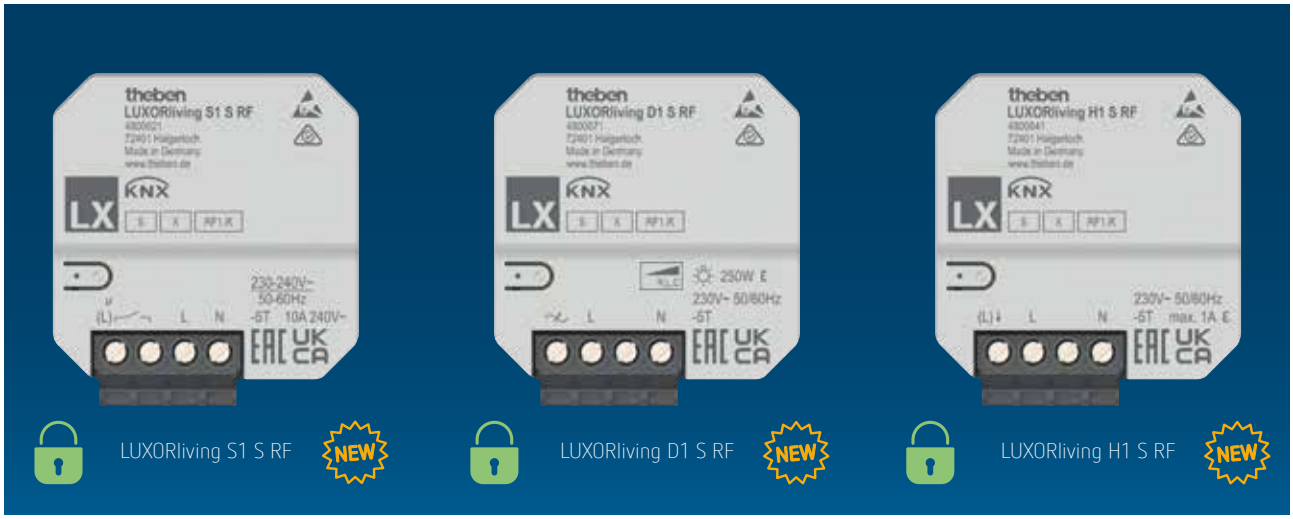
Wireless push button interface LUXORliving T4 S RF

The push button interface allows the integration of 4 conventional push buttons and also offers an input for measuring the temperature.
The 4-way button module (9070806) with integrated temperature sensor can also be used as an alternative to conventional push buttons.

Media coupler LUXORliving RF1

The media coupler for system extension with wireless devices connects LUXORliving RF devices of a wireless line with the twisted-pair bus.

Jupol



Description

Common functions

- 1-way wireless flush-mounted actuator LUXORliving
- Encrypted wireless communication
- Easy installation due to the compact housing
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload
- The binary inputs are assigned to the output as standard (function test before programming)

LUXORliving S1 S RF

- 1-way wireless flush-mounted switch actuator
- Adjustable features: NC/NO contact, switching, delayed switching, pulse function

LUXORliving D1 S RF

- 1-way wireless flush-mounted dimming actuator
- Optimised dimming output for dimmable energy-saving lamps, LEDs, incandescent and halogen lamps, and dimmable transformers.
- Easy to adapt to different lamps thanks to automatic load detection
- Adjustable dimming curve for precise and flicker-free dimming

LUXORliving J1 S RF

- 1-way wireless flush-mounted blind actuator
- For controlling drives for blinds, roller blinds, sun and vision protection devices, skylights, and ventilation flaps
- Integrated automatic ventilation function

LUXORliving H1 S RF

- 1-way wireless flush-mounted heating actuator LUXORliving
- Noiseless control of thermal actuators 230 V AC
- Integrated temperature controller heating / cooling
- Valve protection function

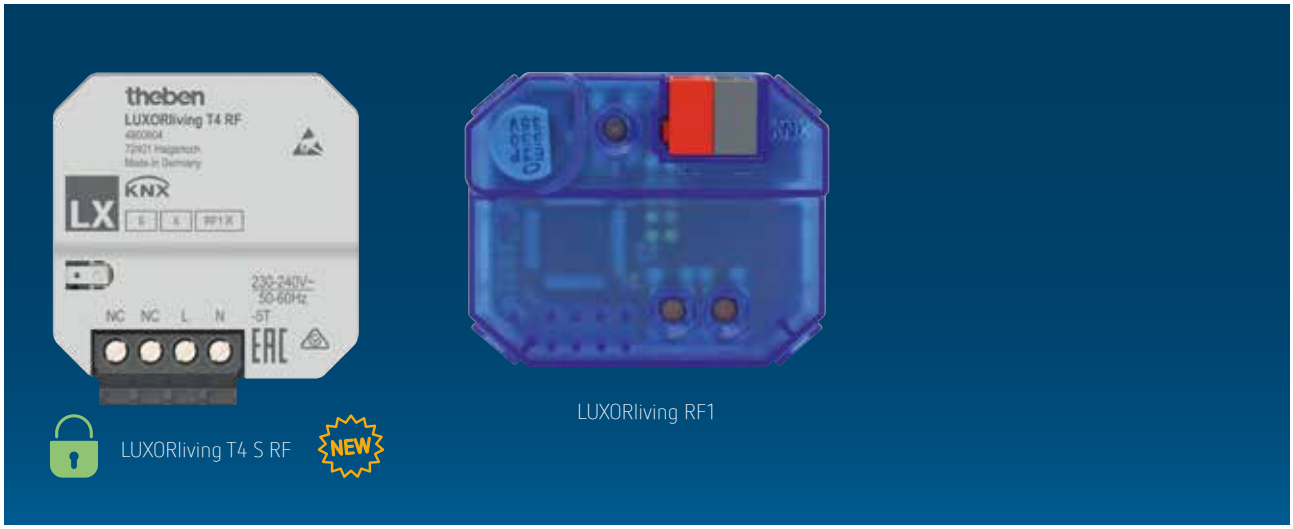
Product selection

Configuration type	Number of channels	Type	Article number
Switch actuator	1	LUXORliving S1 S RF	4800621
Dimming actuator	1	LUXORliving D1 S RF	4800671
Blind actuator	1	LUXORliving J1 S RF	4800651
Heating actuator	1	LUXORliving H1 S RF	4800641

Technical data

	LUXORliving S1 S RF	LUXORliving D1 S RF	LUXORliving J1 S RF	LUXORliving H1 S RF
Operating voltage	230–240 V AC	230 V AC	230–240 V AC	230 V AC
Frequency	50–60 Hz			
Switching capacity	10 A	–	5 A	max. 1 A or 4 actuators 230 V AC (ALPHA 5)
Incandescent/halogen lamp load	1800 W	250 W	–	–
LED lamp (typ.)	600 W	Trailing edge (RC-mode): 250 W	–	–
Ambient temperature	–5 °C ... +45 °C			
Protection rating	IP 20			
Protection class	II			

Additional technical data at: www.theben.de/product/ Articlenumber



Description

LUXORliving T4 S RF

- 4-way flush-mounted wireless push-button interface
- Encrypted wireless communication
- 4 binary inputs for potential-free buttons and signaling contacts
- 1 additional input for temperature sensor
- Free assignment of the functions switching, dimming, blinds, temperature measurement and transmission
- Easy installation due to the compact housing
- Can be used with 4-way push-button module (9070806)

LUXORliving RF1

- Connects LUXORliving RF devices of a radio line with the twisted-pair bus
- Power supply via KNX bus voltage
- Supports long frames for „KNX Secure" and enables faster download of large applications in parallel
- Ranges of max. 30 m within the building are possible
- Has a repeater function, i.e. received telegrams are sent again to increase the range

Product selection

Type	Article number
LUXORliving T4 S RF	4800614
LUXORliving RF1	4800868

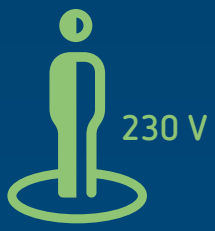
Technical data

	LUXORliving T4 S RF	LUXORliving RF1
Operating voltage	230 – 240 V AC	Bus voltage
Frequency	50 – 60 Hz	–
Stand-by consumption	< 0,4 W	–
Length connecting wires	25 cm	–
Interface extension max.	3 m	–
Ambient temperature	– 5 °C ... +45 °C	
Protection class	II	–

theMura
Motion and presence detectors for standard switch ranges

Theben theMura flush-mounted motion and presence detectors are suitable for universal use with the switch ranges of all leading manufacturers. Energy-efficient lighting control can be that simple and flexible.

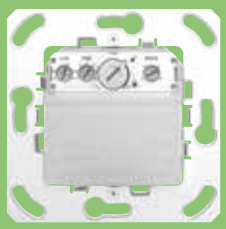
More information at **www.theben.de/theMura-en**



Motion detector theMura S180 KNX UP
with integrated push button
1 x lighting channel
1 x presence channel
3 logic channels

Presence detector theMura P180 KNX UP
with integrated push button
2 x lighting channel
2 x presence channel
6 logic channels
Orientation light, temperature and acoustic sensor, push button interface

Motion detector LUXORliving BI180
with integrated push button
1 x lighting channel
Temperature sensor



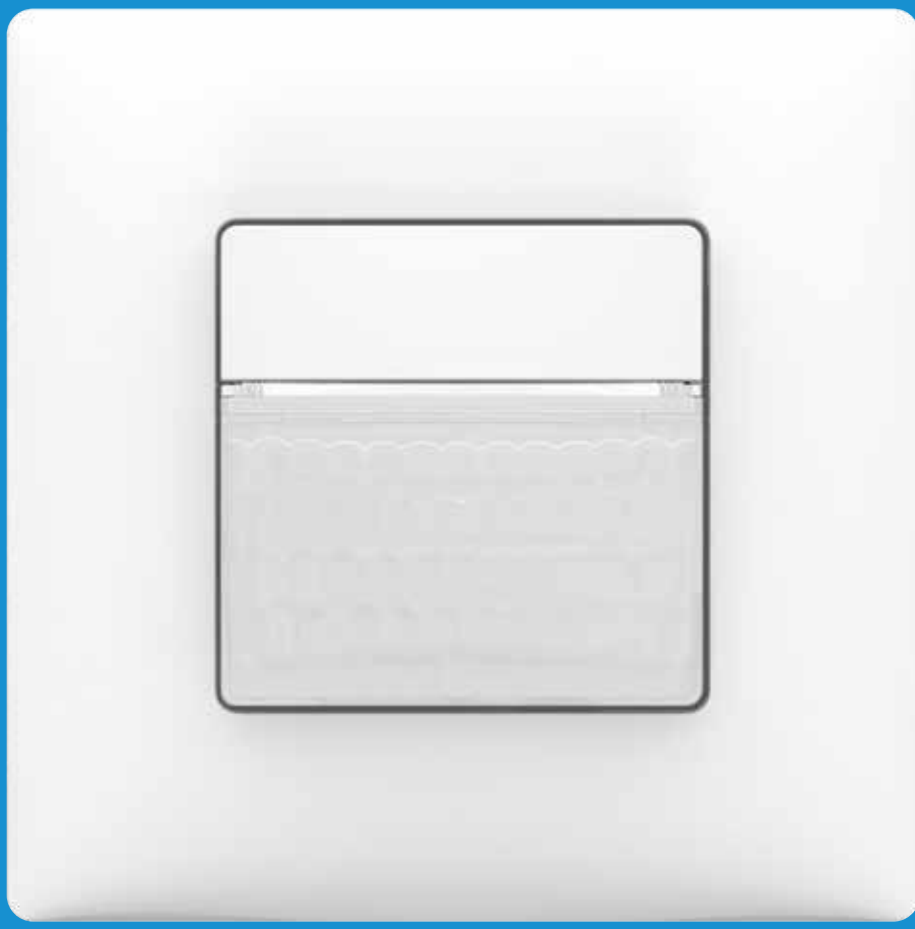
3-wire motion detector
1 x lighting channel
theMura S180-100 UP
withTheben frame
theMura S180-100 B UP
without cover

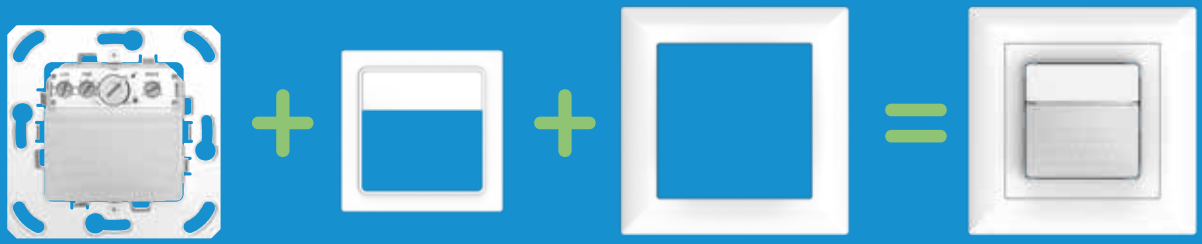
3-wire-motion/ presence detector
Slave
theMura S180 Slave UP
with Theben frame
theMura S180 Slave B UP
without cover

3-wire presence detector
1 x lighting channel
1 x presence channel
Orientation light
Acoustic sensor
theMura S180-101 UP
with Theben frame
theMura S180-101 B UP
without cover

2-wire motion detector
for staircase light timer switch
theMura S180-100 2W UP
with Theben frame
theMura S180-100 2W B UP
without cover

Universal genius
Adapter frame
clever and attractive





theMura base unit
(theMura S180 ... B UP)

Accessory set consisting of push button cover, adapter frame and optional plastic mounting plate e.g. JUNG adapter frame + push button cover
(Item no. 9070789)

Frame from the corresponding switch program manufacturer

Description

- Passive infra-red motion detector for wall installation
- Square detection area 170°, 14 x 17 m (238 m²)
- Mixed light measurement suitable for the control of fluorescent, incandescent, halogen lamps and LEDs
- Integrated temperature sensor
- Integrated button
- Extension of detection area via master / slave switching
- Adjustable sensitivity
- With Theben frame
- Adapter frames for common switch ranges available as accessory, see www.theben.de / theMura-en

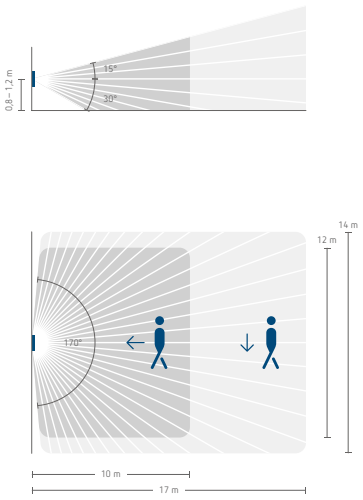
Product selection

Type	Article number
LUXORliving BI180 WH	4800350

Technical data

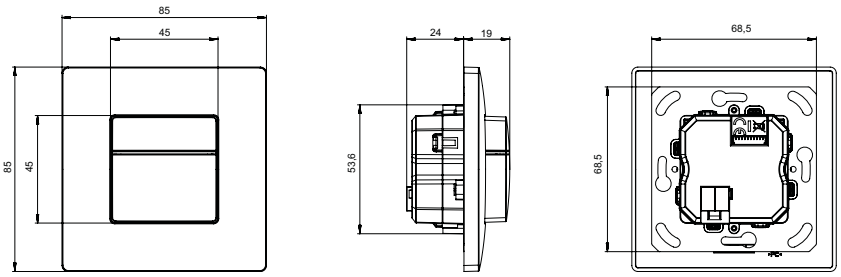
LUXORliving BI180 WH			
Operating voltage KNX	Bus voltage, < 10 mA	Size of concealed housing	Size 1
Brightness setting range	5 – 3000 lx	Protection rating	IP 20
Ambient temperature	–15 °C ... +45 °C	Protection class	III

Detection area



Going diagonally to the detector
Going head-on to the detector
Installation height 0.8-1.2 m

Scale drawings



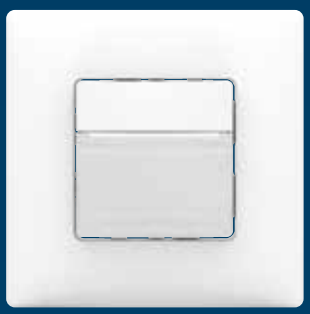
Accessories

theSenda B
↳ Art.No.: 9070985

theSenda P
↳ Art.No.: 9070910

theSenda S
↳ Art.No.: 907911

Cover frames theMura
↳ Art.No.: 907910



theMura KNX UP WH

Description

- Passive infrared presence / movement detector for wall mounting flush-mounted
- Rectangular detection area 170°, 14 x 17 m (238 m²) at 1.2 m mounting height
- For KNX bus system
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Integrated, freely parameterisable push-button (can be deactivated)
- Manual override via external KNX push-button possible
- One directional brightness measurement (mixed light measurement)
- Teach-in function
- Locking functions
- HVAC channel without brightness influence
- Switch-on delay and follow-up time of HVAC channel adjustable
- Extension of the detection range by master / slave or master / master switching
- Detection sensitivity adjustable
- Test mode for checking function and detection range
- Settings via ETS software (full range of functions)
- With Theben cover frame

theMura S180 KNX UP WH

- Motion detector
- 1 channel light and 1 channel presence for HVAC control
- 3 logic channels (AND, OR, XOR)

theMura P180 KNX UP WH

- Presence detector
- 2 channels light and 2 channels HVAC
- Switching or constant light control with stand-by functionality (orientation light)
- Dimmable lighting in switching mode with and without daylight influence
- Simple adjustment of brightness measurement
- Short-time presence
- Selectable control speed
- Aura function
- Scene functionality
- Integrated orientation light (white)
- Integrated temperature sensor
- Acoustic function
- 2 binary inputs
- 6 logic channels (AND, OR, XOR)
- Limited setting options with app / universal remote control theSenda B
- Limited setting possibilities with service remote control theSenda P

Product selection

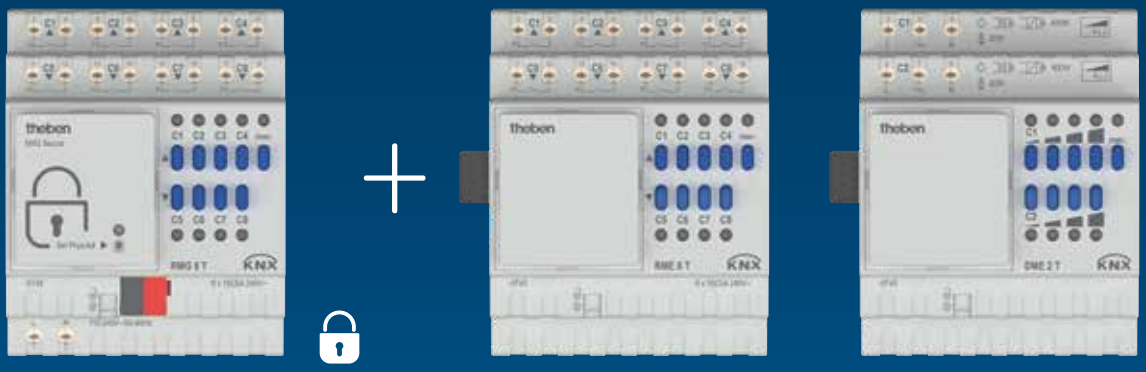
Product type	Type	Article number
Motion detector	theMura S180 KNX UP WH	2069650
Presence detector	theMura P180 KNX UP WH	2069655

Technical data

	theMura S180 / P180 KNX UP WH
Operating voltage KNX	Bus voltage, < 10 mA
Mounting height	0,8 – 1,2 m
Brightness setting range	5 – 3000 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 / inactive
Size of concealed housing	Size 1
Ambient temperature	–15 °C ... +45 °C
Protection rating	IP 20

Detection area, scale drawings and accessories see page 14

Everything KNX desires
That only exists at Theben



Base module (G) + maximuml 2 extension modules (E)

1. KNX Secure - No chance for data theft

The MIX2 devices are now KNX Secure certified and thus offer maximum protection against data theft and manipulation. Previous MIX2 devices can also be upgraded to KNX Data Secure in just a few steps.

2. Removable bus coupler

The installer fits the base module (G), the system integrator configures the bus coupler – at the office, comfortable and practical. Just before start-up, the module is simply plugged in – done. That cost effective, because for installation and wiring it is not absolutely essential that an installer with bus knowledge be on site.

3. Inexpensive extension devices

As only the base module is fitted with a bus coupler, this reduces the costs for the extension devices (E) – and due to the saved system devices – by up to a third. It pays off. Especially in property construction. Add it up!

4. Flexible expandability

With KNX MIX2, controlling lighting, dimming, heating, climate or sun protection is never a problem, but desirable. With MIX2, you create an individual solution, which is customized to each room and its specific needs. Only Theben offers this flexibility.

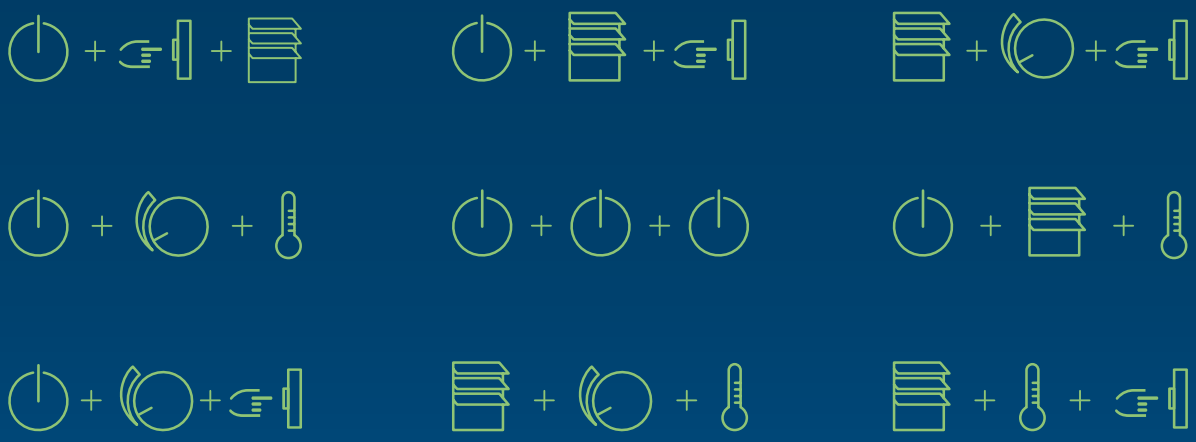
5. Clearly arranged application

The configuration menus in ETS are not only identically structured for all actuators, but also very clearly and intuitively arranged. You can select the actuators you want via drop-down menus according to your project and requirements. Even afterwards, in case an extension module with a different functional range is needed. Only Theben offers this.

MIX2 actuators - the video
intelligent, flexible, expandable

In an easily understandable way, our MIX2 video shows you the various advantages of the MIX2 series.

www.youtube.com/TheThebenAG



A good mix – with 129 functions and up to 729 combinations

Switching

On/off with and without delay or staircase light with forewarning – as for instance the 4-fold C-load switch actuators – offer you new freedom of action on up to 12 channels. They feature current recognition and are designed for higher lamp loads
(see page 11).

Switch actuators

MIX2 RMG 4 U KNX
MIX2 RME 4 U KNX
MIX2 RMG 4 I KNX
MIX2 RME 4 I KNX
MIX2 RMG 8 S KNX
MIX2 RME 8 S KNX

Combination actuators

MIX2 RMG 8 T KNX
MIX2 RME 8 T KNX

Dimming

No flickering, an attractive, evenly rising brightness level with all currently available LED lamps – Theben's universal dimming actuators have already proven themselves in the market. Without exception, they have been enthusiastically received. They are considered to be one of the best dimming actuators of all.

Dimming actuators

MIX2 DMG 2 T KNX
MIX2 DME 2 T KNX

Blinds

With the switch/blinds actuators you can switch and control as you like. From 4 to 8 or 12 blinds or 24 switching channels. Or mixed. Everything just with three modules. This gives you more freedom in the use of the channels because you can assign them as you please afterwards.

Switch/blinds actuators

MIX2 JMG 4 T KNX
MIX2 JME 4 T KNX
MIX2 JMG 4 T 24V KNX
MIX2 JME 4 T 24V KNX

Combination actuators

MIX2 RMG 8 T KNX
MIX2 RME 8 T KNX

Heating

With the heating actuators, Theben offers you the possibility of capturing the temperature in the individual rooms with affordable temperature sensors. Temperature control takes place in the actuator itself.

Heating actuators

MIX2 HMG 6 T KNX
MIX2 HME 6 T KNX

Binary inputs

Theben binary inputs cover the full range of contacts and voltages – whether floating contacts, 24 V, or 230 V. Each of the binary inputs offers six channels. That means more flexibility and greater investment security. Also, for ease of maintenance or service, each channel can be tested via manual operation.

Binary inputs

MIX2 BMG 6 T KNX
MIX2 BME 6 T KNX

Secure communication with KNX Data Secure

The smart flush-mounted solution

KNX flush-mounted actuators

The flush-mounted actuators in TP and RF versions support secure communication with encryption according to the "KNX Data Secure" standard. This standard effectively prevents interpretation and manipulation of the sent information. Thanks to their compact design, KNX flush-mounted actuators fit into any switch/junction box.

100% more range
200% more transmission power

With the new wireless actuators that comply with the KNX standard "KNX RF1.R S-Mode", Theben offers a practical option to expand existing KNX systems in buildings without the need to invest much time or effort. In this way, extensions to buildings or functions can be easily integrated into the system at a later date Thanks to the media coupler, you can easily link wired and wireless components.

Wide range of applications

Use depending on the device for dimming, for blind/shade control, for switching loads with high inrush currents, heating control, for integrating push buttons, signal contacts and temperature sensors.

Quick installation

Thanks to their compact design, the KNX flush-mounted wireless actuators fit into any switch/junction box

Flexible integration

With 2 external inputs for connecting a push button, signal contact or temperature sensor

Switching actuators

SU 1 KNX
SU 1 S RF KNX

Blinds actuators

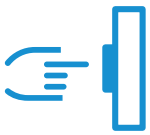
JU 1 KNX
JU 1 S RF KNX

Dimming actuators

DU 1 KNX
DU 1 S RF KNX

Heating actuators

HU 1 KNX
HU 1 S RF KNX



Binary inputs

TU 4 S RF KNX

Flus-mounted actuators
TP and RF versions
for secure communication

KNX®
Data Secure

Description

Common functions

- Flush-mounted 1-way actuator, KNX TP, Data Secure
- Secure communication via KNX-RF with support from KNX Data Secure
- Easy installation due to the compact housing
- 2 binary inputs for floating contacts such as buttons, switches, temperature sensor (I2)
- Integrated temperature monitoring for increased operating safety, e.g. in the event of overload
- The binary inputs are assigned to the output as standard (function test before programming)

SU 1 RF S KNX

- Flush-mounted 1-way switching actuator 10 A 130 µF, KNX TP, Data Secure
- Adjustable features: NC / NO contact, switching, delayed switching, pulse function

DU 1 RF S KNX

- Flush-mounted 1-way dimming actuator 250 W, KNX TP, Data Secure
- Optimised dimming output for dimmable energy-saving lamps, LEDs, incandescent and halogen lamps, and dimmable transformers.
- Easy to adapt to different lamps thanks to automatic load detection
- Adjustable dimming curve for precise and flicker-free dimming

JU 1 RF S KNX

- Flush-mounted 1-way bling actuator 5 A, KNX TP, Data Secure
- For controlling drives for blinds, roller blinds, sun and vision protection devices, skylights, and ventilation flaps
- Integrated automatic ventilation function

HU 1 RF S KNX

- Flush-mounted 1-way heating actuator, KNX TP, Data Secure
- Silent control of 230 V AC thermal actuators
- Integrated heating / cooling temperature controller
- Valve protection function

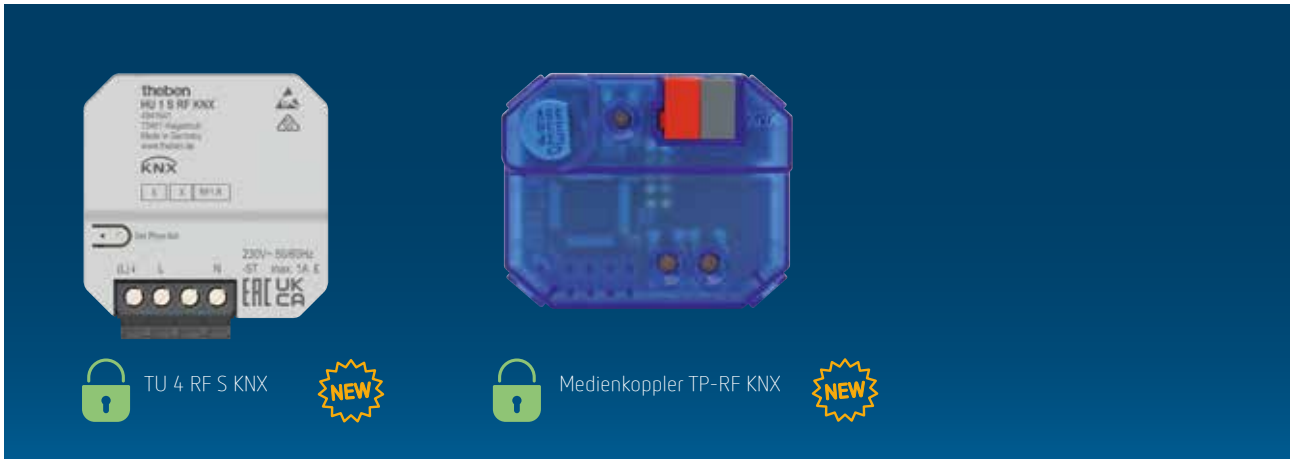
Product selection

Configuration type	Number of channels	Type	Article number
Switch actuator	1	SU 1 RF S KNX	4941621
Dimming actuator	1	DU 1 RF S KNX	4941671
Blind actuator	1	JU 1 RF S KNX	4941651
Heating actuator	1	HU 1 RF S KNX	4941641

Technical data

	SU 1 RF S KNX	DU 1 RF S KNX	JU 1 RF S KNX	HU 1 RF S KNX
Operating voltage	230 – 240 V AC	230 V AC	230 – 240 V AC	230 V AC
Frequency	50 – 60 Hz			
Switching capacity	10 A	–	5 A	max. 1 A or 4 actuators 230 V AC (ALPHA 5)
Incandescent / halogen lamp load	1800 W	250 W	–	–
LED lamp (typ.)	600 W	Trailing edge (RC-mode): 250 W	–	–
Ambient temperature	– 5 °C ... +45 °C			
Protection rating	IP 20			
Protection class	II			

Additional technical data at: www.theben.de / product / Articlenumber



Description

TU 4 RF S KNX

- 4-way flush-mounted wireless push-button interface
- Secure communication via with support of „KNX Data Secure"
- 4 binary inputs for potential-free buttons and signaling contacts
- 1 additional input for temperature sensor
- Free assignment of the functions switching, dimming, blinds, temperature measurement and transmission
- Easy installation due to the compact housing
- Can be used with 4-way push-button module (9070806)

Media coupler TP-RF KNX

- Connects KNX RF devices of a radio line with the twisted-pair bus
- Power supply via KNX bus voltage
- Supports long frames for „KNX Secure" and enables faster download of large applications in parallel
- Ranges of max. 30 m within the building are possible
- Has a repeater function, i.e. received telegrams are sent again to increase the range

Product selection

Type	Article number
TU 4 RF S KNX	4961614
Media coupler TP-RF KNX	9070868

Technical data

	TU 4 RF S KNX	Media coupler TP-RF KNX
Operating voltage	230 – 240 V AC	Bus voltage
Frequency	50 – 60 Hz	–
Stand-by consumption	< 0,4 W	–
Length connecting wires	25 cm	–
Interface extension max.	3 m	–
Ambient temperature	– 5 °C ... +45 °C	
Protection class	II	–

Electromotive actuator
CHEOPS S KNX
with integrated controller and temperature sensor

The new electromotive actuator CHEOPS S KNX from Theben is the perfect solution for controlling heating or cooling systems in KNX building automation. The powerful actuator offers the perfect combination of high maximum actuating force up to 220 N, great flexibility thanks to two binary inputs and maximum security thanks to KNX Data Secure.

Motorised actuators such as the CHEOPS S KNX have an integrated temperature sensor and an integrated room temperature controller for efficient heating and cooling, each with an additional stage. Therefore, external devices for temperature measurement and control are not necessary. Even the use in heating circuit distributors is possible. Also, a logic for connecting up to 10 window contacts is integrated. In addition, the motorised actuators offer two universally usable binary inputs. These can be used, for example, to connect an external temperature sensor or presence detector.

Other functions include:
→ Switching
→ Dimming
→ Blind controls
→ Universal valuator
→ Window contact
→ Remote temperature sensor

Description

- Motorised KNX actuator for heating and cooling valves
- Integrated temperature sensor
- Integrated controller for efficient heating and cooling with one additional stage each
- High actuating force of up to 220 N with a maximum valve stroke of 8 mm
- 2 universal binary inputs, connection option e.g. for external temperature sensor, window contact, presence detector or push-button
- Integrated logic for up to 10 window contacts
- Can be used in the heating circuit distributor
- Integrated bus coupling unit
- Automatic valve adaptation
- Universally applicable due to large range of valve adapters
- 2 different valve adapters for the most common valves M30x1.5 and Danfoss included (VA 10, VA 100)
- Secure commissioning and communication through support of KNX Data Secure

Product selection

Type	Article number
CHEOPS S KNX	7319205

Technical data

	CHEOPS S KNX
Operating voltage KNX	Bus voltage, 7,5 mA
Max. valve stroke	8 mm
Controlling torque details	up to 220 N
Ambient temperature	+5 °C ... +50 °C
Protection class	III according to EN 60730-2-14
Type of protection	IP 21

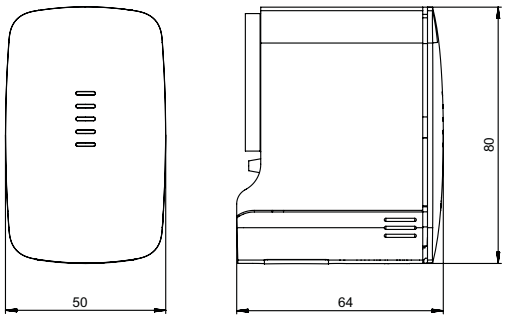
Accessories

Flush-mounted temperature sensor
↳ Art.No.: 9070496

Temperature sensor
↳ Art.No.: 9070321

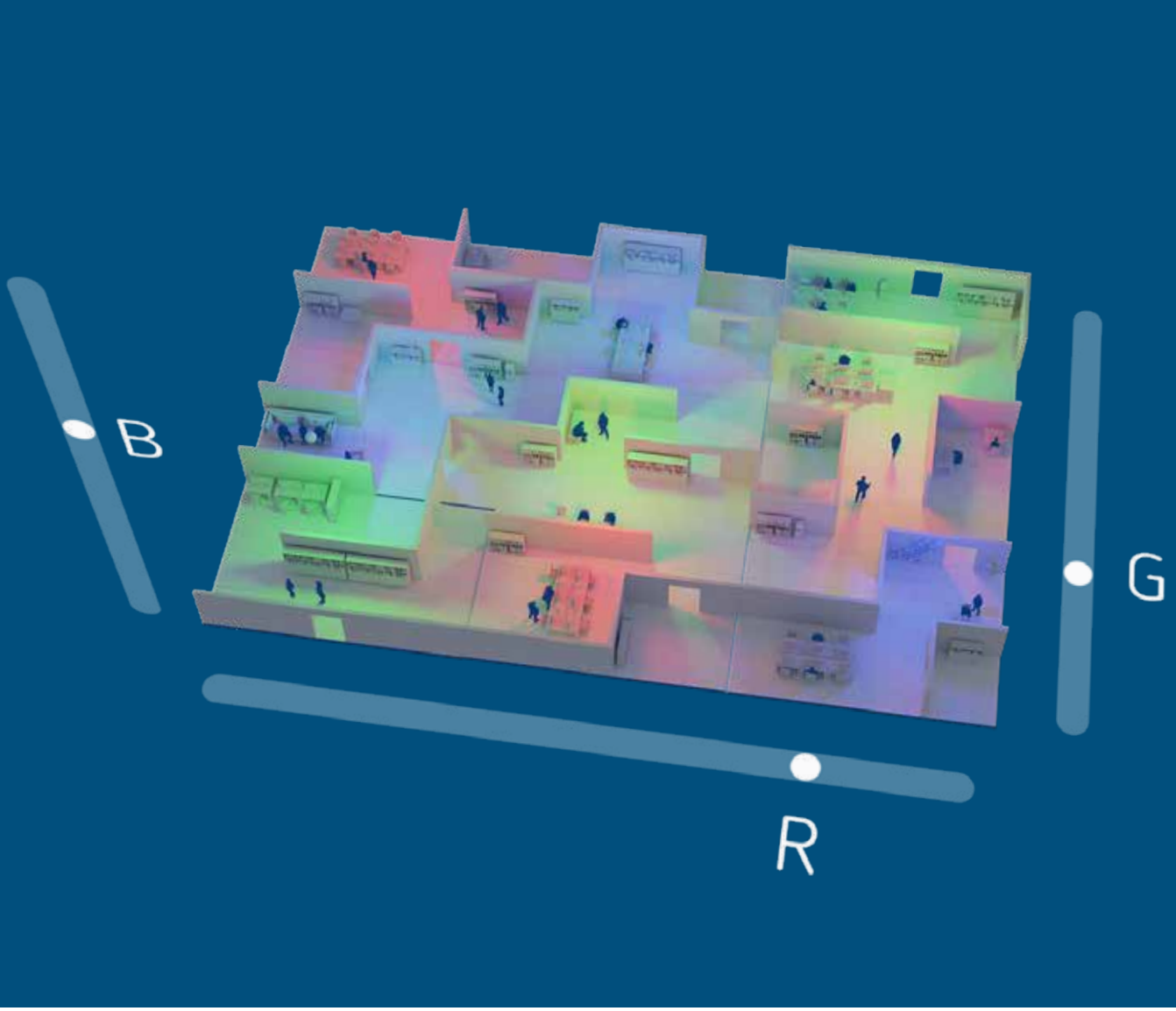
Temperature sensor RAMSES IP 65
↳ Art.No.: 9070459

Scale drawings



Flexible colour control in KNX building automation with KNX and DALI-2 Device Type 8

With the DALI-2 certified DM 4 DALI KNX gateway, up to 30 DALI operating devices per channel can be easily controlled via broadcast commands. Broadcast communication requires no DALI addressing or grouping and greatly simplifies start-up and maintenance.



The highlight: the 4-channel gateway also supports the control of colour and colour temperature of devices according to DALI Device Type 8 (DT8) in a KNX building automation system. Of course, optimally protected by KNX Data Secure.

For example, the working atmosphere in offices and conference rooms can be made more comfortable by using colder or warmer light. Also, creative accent lighting is possible, e.g. in hotels, lounges, exhibition rooms or outdoor areas. By using LED strips, you gain maximum flexibility in the colour and colour temperature design of individual lighting concepts.

KNX Data Secure

Description

- Multi-Master Application Controller as interface between the DALI system and the KNX bus
- DALI-2 certified
- Secure commissioning and communication through support of KNX Data Secure
- Integration of 8 DALI-2 sensors (motion/presence and brightness) according to EN 62386-303 and -304
- Control of 64 DALI devices in 16 groups or individual control
- Control of light colour and colour temperature according to EN 62386-209 (DT-8) in groups or individually
- Automatic adaptation of colour temperature to dimming value
- Scene module for 16 scenes (including DT8 colour control)
- Time-dependent control of brightness, light colour and colour temperature
- Scene module for 16 scenes (including colour control DT8)
- Effect module for sequence control
- Support of single-battery emergency luminaires and emergency luminaire systems with central battery (EN 62386-202, DT-1)
- LC display (2x 12 characters) for menu guidance during commissioning and parameter setting
- Commissioning via the operating elements on the device, via the integrated web server or via the free ETS app (DCA)

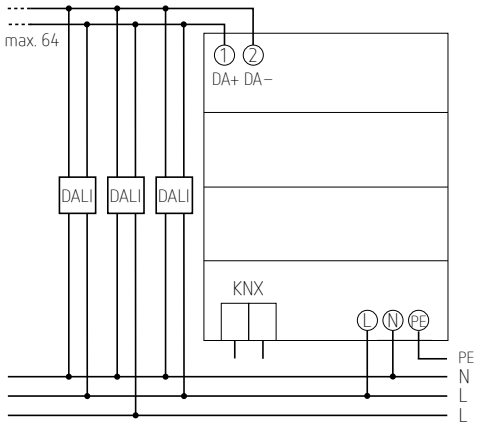
Product selection

Type	Article number
DALI-Gateway P64 KNX	4940303

Technical data

DALI-Gateway P64 KNX			
Operating voltage KNX	Bus voltage, <10 mA	Ambient temperature	-5 °C ... +45 °C
Operating voltage	100–240 V AC/DC	Protection class	I
Frequency	50–60 Hz	Type of protection	IP 20
Width	4 modules		

Connection diagrams



Description

- 4-wax DALI actuator
- DALI-2 certified
- Interface between the DALI system and the KNX bus
- 4 channels, broadcast communication
- Control of up to 30 DALI devices per channel
- Control of light colour and colour temperature according to EN 62386-209 (DT-8)
- Simple commissioning and maintenance thanks to broadcast communication
- Simple replacement of ECGs in the event of a fault
- Simple commissioning and programming in the ETS, without additional tools or ETS app
- Secure communication through KNX Data Secure

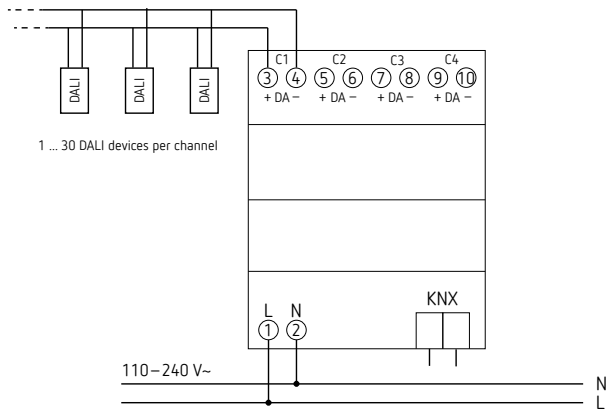
Product selection

Type	Article number
DM 4 DALI KNX	4940300

Technical data

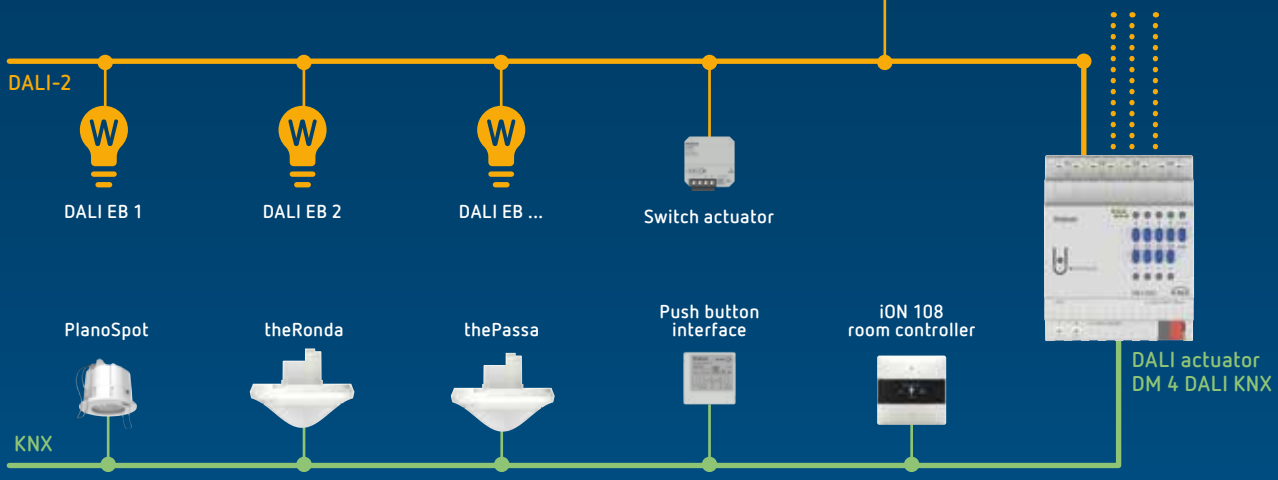
	DM 4 DALI KNX
Operating voltag	110–240 V AC
Frequency	50–60 Hz
Stand-by	0,7 W
Width	4 modules
DALI-Spannung	typ. 16 V DC, short-circuit proof, basic insulation (no SELV), Imax = 250 mA, Imin = 60 mA
Number of DALI devices	max. 30 per channel
Max. cable length DALI	300 m per channel
Ambient temperature	–5 °C ... +45 °C
Type of protection	IP 20
Protection class	I

Anschlussbeispiel



Flexible colour control
in KNX building automation with DM 4 DALI KNX

IEC 62386
Part 201 (DT0) fluorescent lamps
Part 204 (DT3) discharge lamps
Part 205 (DT4) incandescent and halogen lamps
Part 206 (DT5) 1-10V DC control units
Part 207 (DT6) LED modules
Part 208 (DT7) switching relays
Part 209 (DT8) colour control



System diagram: Broadcast control

Simply colourful: DALI broadcast actuator

The DM 4 DALI KNX actuator is for controlling electronic ballasts with DALI interface via the KNX installation bus.

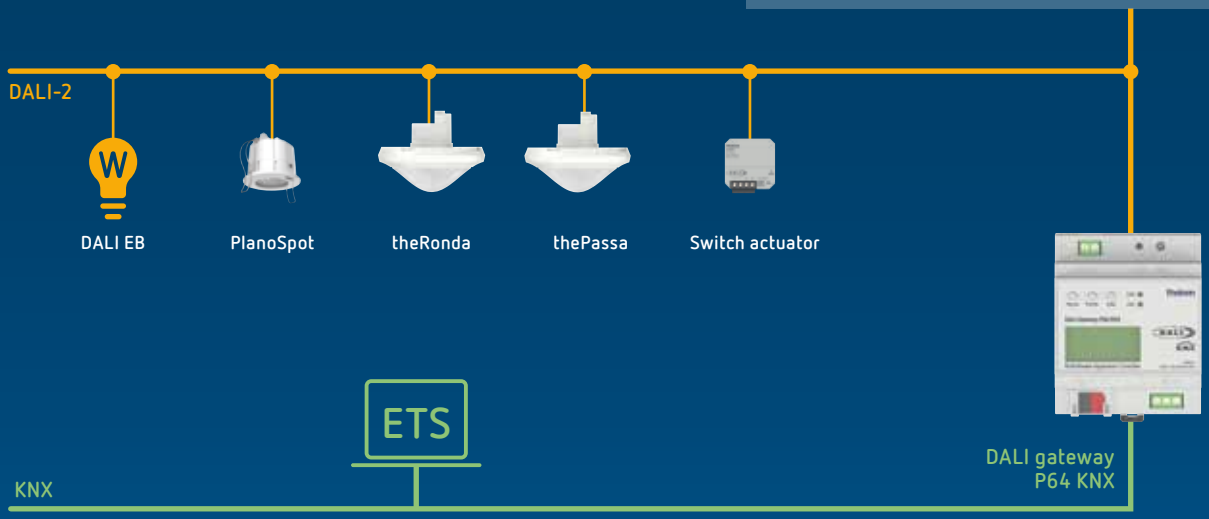
- Broadcast-actuator
- 4 independent channels
- 30 DALI EBs per channel
- Simple start-up and maintenance thanks to broadcast communication
- Support for colour and colour temperature control (Device Type 8)
- Complies with DALI-2 standard and offers maximum operational safety and compatibility
- Simple start-up and programming in the ETS, without additional tools or ETS app
- Secure communication thanks to KNX Data Secure

KNX Data Secure

The actuator is also available for the LUXORliving Smart Home system as the LUXORliving D4 DALI.

Making more out of light
automatically
DALI gateways

IEC 62386
Part 201 (DT0) fluorescent lamps
Part 202 (DT1) emergency lamps with individual battery
Part 204 (DT3) discharge lamps
Part 205 (DT4) incandescent and halogen lamps
Part 206 (DT5) 1-10V DC control units
Part 207 (DT6) LED modules
Part 208 (DT7) switching relays
Part 209 (DT8) colour control
Part 303 motion detectors
Part 304 brightness sensors



System diagram: Multi-master application controller

KNX Data Secure

Connecting worlds:
Multi-master DALI gateway P64 KNX

The P64 KNX DALI gateway is a multi-master application controller for controlling electronic ballasts with DALI interface via the KNX installation bus.

- Multi-master application controller
- 1-channel for 64 EBs and 8 DALI-2 motion detectors or light sensors
- Individual control or in 16 groups
- Coloured light control with Device Type 8 (DT8), individually or in groups
- Time-dependent colour control
- Scene module for 16 scenarios
- Effect module for sequential control
- Energy saving by switching off the EB power supply in the groups (communication object)
- Easy replacement of EBs in the event of a fault
- DALI start-up via free ETS app (DCA) or integrated web server
- Secure communication thanks to KNX Data Secure

The advantages of DALI-2 Room Solution at a glance

#01 Complete

Complete solution consisting of presence detectors, presence sensors, push button interfaces and switch actuators.

#02 Open

Investment security thanks to open DALI-2 system.

#03 Versatile

HCL functionality, RGBW light and time-controlled functions.

#04 Convenient

Start-up and control via DALI-2 RS Plug app. Available for iOS and Android, or Windows. Download at www.theben.co.uk/dali2-en

Download iOS version

Download Android version

#05 Intuitive

Simple start-up – individual addressing as easy as broadcast.

theRonda P360 DALI-2 HCL UP WH

→ Master DALI-2 presence detector (application controller, single master)
→ **IEC 62386:** part 101 / 103 and supports 208, 209, 218, 301 and 303
→ Ceiling installation (flush mounting) with accessories (surface mounting) and (ceiling installation)
→ 360° circular detection area, Ø 24 m, (452 m²) at 3 m installation height. Installation height up to 15 m possible.
→ Human Centric Lighting (HCL) colour temperature control
→ RGBW functionality for atmospheric applications
→ Integrated DALI-2 supply for other DALI-2 participants
→ Integrated time switch for time-controlled actions
→ 3-way mixed light measurement
→ Protection rating IP 54
→ Item no.: 2080095

theRonda P360 DALI-2 S UP WH

→ DALI-2 presence sensor (input device)
→ **IEC 62386**: part 103 and supports 303 and 304
→ Ceiling installation (flush mounting) with accessories (surface mounting) and (ceiling installation)
→ 360° circular detection area, Ø 24 m, (452 m²) at 3 m installation height
→ Extension of the detection area with DALI-2 presence sensor
→ Protection rating IP 54
→ Item no.: 2080090

TA 4 S DALI-2 push-button interface

→ 4-way DALI-2 push button interface, flush-mounted, IEC 62386 part 302
→ 4 inputs to connect potential-free push buttons
→ Push buttons of contact type "NO contact" or "opening contact" can be used; the contact type can be set in the "DALI-2 RS Plug" app
→ Item no.: 4960094

SU 1 DALI-2 switch actuator

→ 1-way DALI-2 flush-mounted switch actuator, IEC 62386 part 208
→ To control loads with a mains voltage of 230 V AC, such as lamps, fans, pumps, etc.
→ Also suitable for applications with low voltage or control of a higher-level control system (HVAC), etc.
→ Item no.: 4940091

Flush-mounting: flush-mounting ceiling installation | **Surface mounting:** surface-mounting ceiling installation
Ceiling installation: ceiling installation using springs

Appsolutely convenient
Start-up and control
via DALI-2 RS Plug app

The DALI-2 Room Solution can be comprehensively and intuitively configured and operated using the DALI-2 RS Plug app for iOS, Android and Windows tablets.

Communication between tablet and presence detectors is bidirectional via Bluetooth. This means that all parameters can be quickly and easily read. Furthermore, you can install detector firmware and function updates in a flash, keeping all devices fully up to date. Compared to other systems, start-up of this solution is quick and easy.

Main functions:

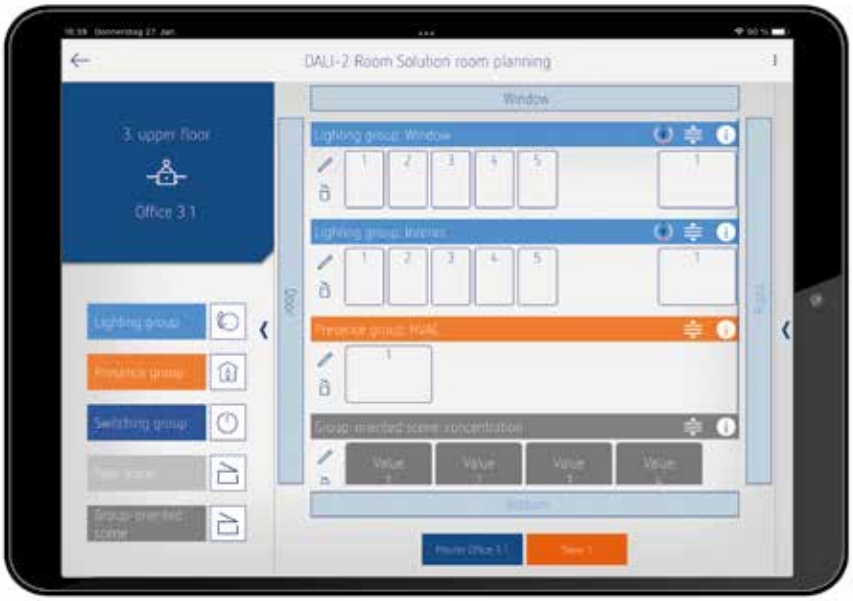
- → **Intuitive user interface** with drag and drop
- → **Fast programming** thanks to settings that can be copied
- → **Efficient copy function** for quick transfer of a project or a single room
- → **Easy parameter setting** for basic users and expert users
- → **User-friendly setting** and selection of HCL trends, scenarios and time switch functions
- → **Improved support** during start-up thanks to diagnostics data
- → **Secure backup:** The project can be saved for documentation purposes and uploaded again later.

Download
iOS-Version

Download
Android-Version

Define building

Create your building, the different floors and room types and assign unique names.



Define room

The structure of the room with light, presence and switching groups as well as the scenes can be defined and parameterised before commissioning.

Commissioning

As soon as the tablet is connected to the detector via Bluetooth, the entire programme including all parameters is transmitted to the detector.
During commissioning all DALI devices are automatically read in and assigned to the lighting, presence or switching groups via drag & drop.

HCL functions

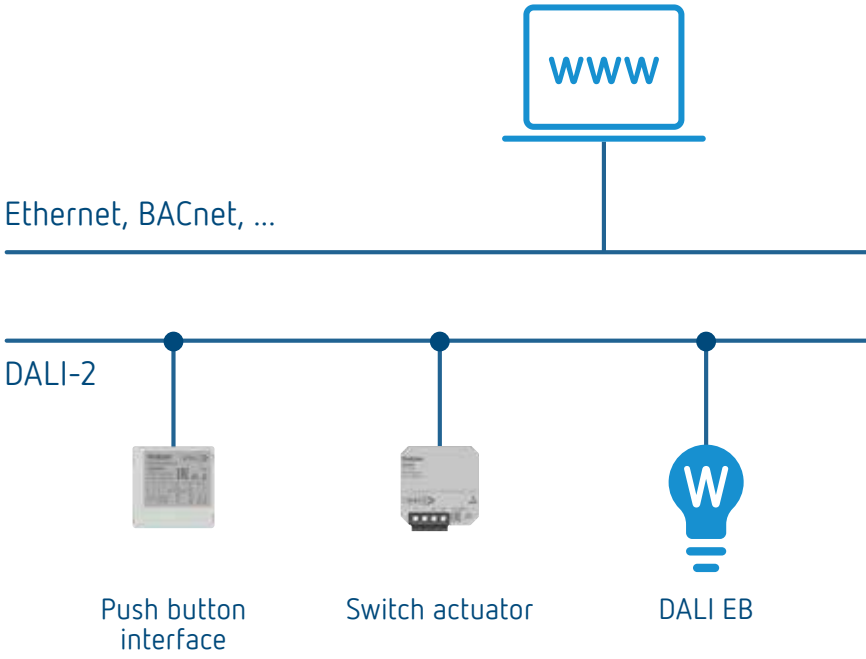
Various HCL sequences are available for the HCL lighting concepts, which can also be customised.

DALI-2 presence sensors, push button interfaces and actuators for operation with BMS

Perfect light management can also be achieved with a higher-level control solution using a Building Management System and presence sensors. Here, the DALI-2 standard ensures compatibility across manufacturers. This allows the Theben DALI-2 presence sensors to be operated with any multi-master application controller that complies with IEC 62386 Parts 101/104.

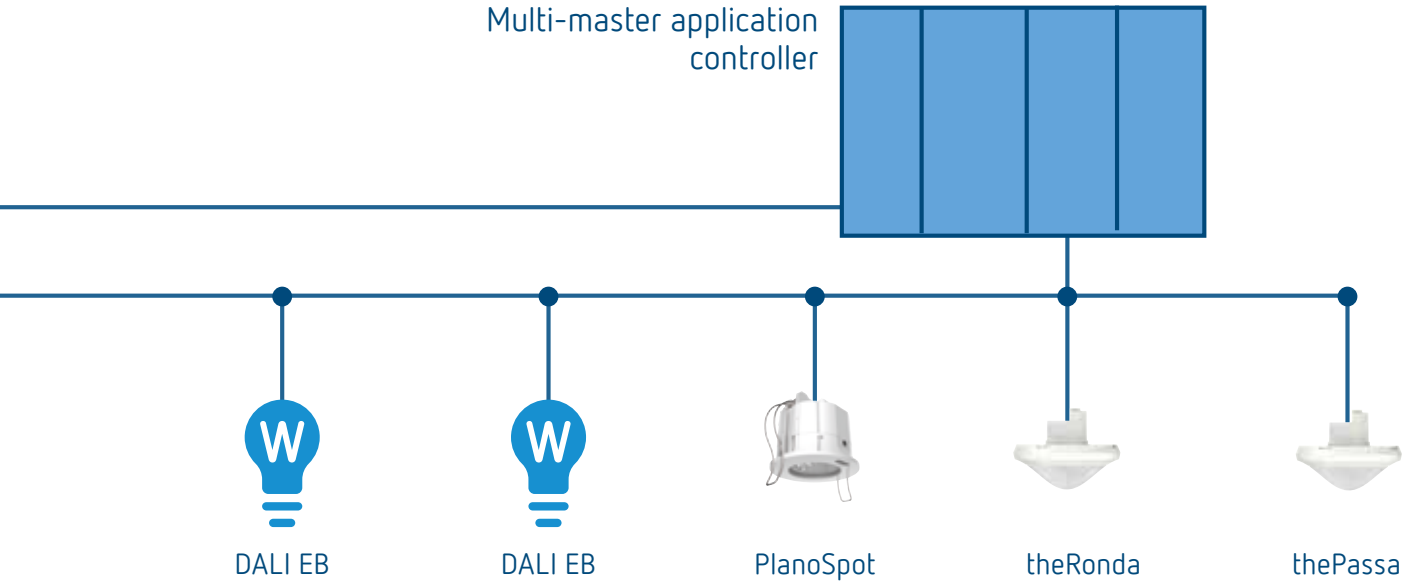
As an input device, the presence sensor provides information regarding presence detection and light measurements in accordance with IEC 62386 Part 303 or Part 304 via the DALI bus. The higher-level control system is responsible for providing all the functions, such as switching, constant lighting control, fully/semi-automatic device, manual override and scenes.

The presence sensors also support remote control commands for dimming or switching lamps, controlling blinds, or other functions. The presence sensor sends the information via the DALI-2 bus to the higher-level control system as per IEC 62386 part 301. Using the information, it can trigger desired actions. In addition, a compact DALI-2 push button interface and a powerful DALI-2 switch actuator can be integrated into the Building Management System.



Original size

theRonda S360 DALI-2 S UP WH (50 m², circular Ø 8 m)
theRonda P360 DALI-2 S UP WH (452 m², circular Ø 24 m)
thePassa P360 DALI-2 S UP WH (135 m², ▭ 30 x 4.5 m)



Description

Functional description DALI-2 Room Solution

- The DALI-2 Room Solution is a DALI-2 single room solution that handles all aspects of lighting control. Compared to DALI presence detectors, the DALI-2 Room Solution offers new functionalities such as HCL function, TW / RGB functionality, time-controlled functions and others. For the single room solution, all key components (presence detector, switching actuator, push-button interface) and the app for commissioning are available from a single source

Functional description theRonda DALI HCL

- Passive infrared presence detector for ceiling mounting, DALI-2 certified
- Circular detection zone 360°, Ø 24 m, (452 m²) at 3 m mounting height
- DALI-2 addressable up to 4 channels of light
- Evaluates information from DALI push-button interfaces and controls actuators such as DALI ECGs or DALI relays according to DALI-2 standard
- Colour temperature control based on time of day HCL (Human Centric Lighting)
- Operation with RGBW light sources
- Time-controlled actions via integrated timer
- Flexible assignment of up to 4 lighting groups, additionally up to 4 switching groups and 2 presence groups via app remote control
- Constant light control or dimmable lighting in switching mode with and without daylight influence
- Orientation light
- Switching mode and constant light control without presence influence
- 3 mixed light measurements
- Simple integration of up to 4 DALI push-button interfaces (16 push-buttons) via app remote control
- Simple, intuitive commissioning and operation thanks to app remote control, bidirectional communication via BLE and thus simple reading of all parameters
- Dimming speed manual dimming with remote control adjustable in 2 steps via parameters
- Self-learning overrun time
- Shortening of the overrun time in case of short presence (short-time presence)
- Teach-in function via remote control
- Detection sensitivity adjustable
- Extremely simple setting of energy-saving behaviour (eco / eco plus)
- Selectable control speed
- Manual override via remote control or push-button / slider
- Staircase lighting function
- Test mode for checking function and detection range
- Simple extension of the detection range through automatic integration of DALI-2 presence sensors
- App remote control „theSenda B" (optional) and corresponding app „DALI-2 RSplug" (for iOS / Android
- Area restriction with cover clips (optional)

Product selection

Installation type	Detection range	Colour	Type	Article number
Ceiling installation	Ø 24 m	White	theRonda P360 DALI-2 HCL UP WH	2080095
		Grey	theRonda P360 DALI-2 HCL UP WH + Cover 110 GR	2080095 + 9070591
		Black	theRonda P360 DALI-2 HCL UP WH + Cover 110 BK	2080095 + 9070851
		Other colours	available uopn request	

Technical data

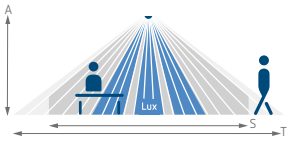
	theRonda P360 DALI-2 HCL UP
Operating voltage	230 V AC
Frequency	50 Hz
Installation height	2 – 15 m (min. 1,7 m)
Power consumption	< 0,7 W (without DALI patricipant); < 1,6 W (with DALI output 150 mA)
Setting range brightness	10 – 3000 lx, on
Stand-by time light	0 s – 60 min / on
Stand-by brightness	1 – 75 %
Control output	guaranteed 150 mA, max. 250 mA (EN 62386-101)
Size of concealed housing	Size 1
Ambient temperature	–15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Additional technical data at: www.theben.de / product / Articlenumber

Detection range theRonda P (Round)

Mounting height (A)	Sitting (S)	Walking diagonally (T)	Walking head on to (R)
2 m	16 m² | 4,5 m	380 m² | 22 m	28 m² | 6 m
2,5 m	24 m² | 5,5 m	415 m² | 23 m	38 m² | 7 m
3 m	28 m² | 6 m	452 m² | 24 m	50 m² | 8 m
3,5 m	38 m² | 7 m	452 m² | 24 m	50 m² | 8 m
6 m	-	452 m² | 24 m	50 m² | 8 m
10 m	-	491 m² | 25 m	50 m² | 8 m

Detection range according to sensNORM IEC 63180 see datsheet



Accessories

App/ universal remote control theSenda B
↳ Art.No.: 9070985

Surface frame 110A, other colours (GR/BK)
↳ Art.No.: 9070913 / 9070600

User remote control theSenda S
↳ Art.No.: 9070911

Service remote control theSenda P
↳ Art.No.: 9070910

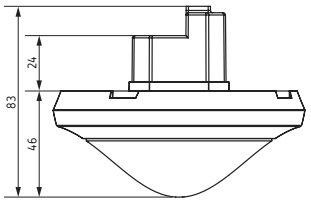
Ceiling installation box 68A
↳ Art.No.: 9070992

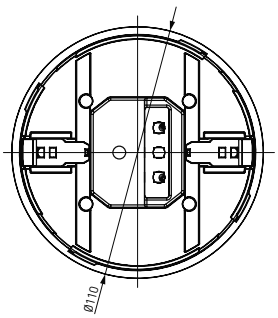
Masking clip
↳ Art.No.: 9070921

QuickSafe safety cover
↳ Art.No.: 9070531

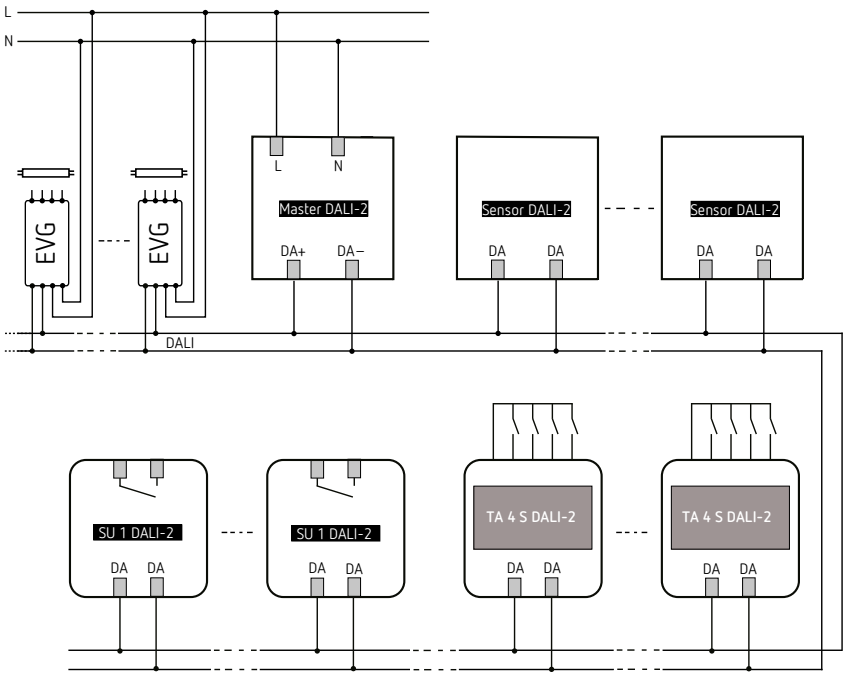
Cover 110 other colours (GR/BK)
↳ Art.No.: 9070591 / 9070851

Scale drawings





Connection diagrams



Description

- 1-way DALI-2 switching actuator flush-mounted
- For the control of loads with 230 V AC mains voltage such as lamps, fans, pumps, etc.
- Additionally suitable for applications with extra-low voltage or control of a higher-level control system (HVAC), etc.
- Compact relay module for direct control of loads via the DALI bus according to IEC 62386 part 208
- Powerful relay suitable for loads with high inrush current such as LED luminaires
- Adjustable switch-on level after bus voltage is removed
- The switching thresholds of the relay can be easily adjusted via the DALI bus
- One DALI bus device and can be addressed accordingly according to 62386 part 102
- Power supply via the DALI bus
- Simple installation in commercially available flush-mounted boxes

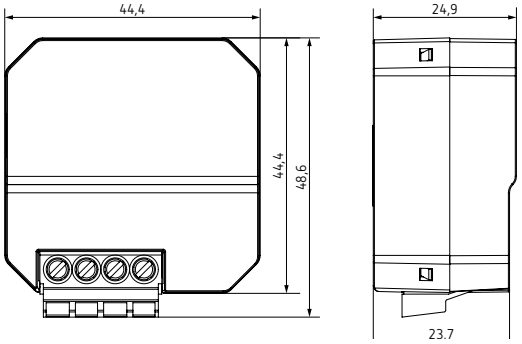
Product selection

Type	Article number
SU 1 DALI-2	4940091

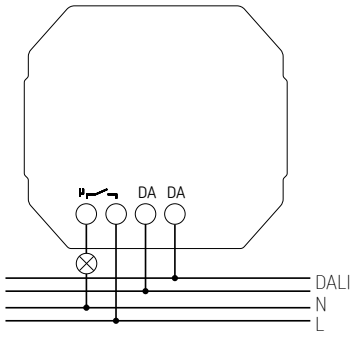
Technical data

	SU 1 DALI-2
Operating voltage	DALI (according to IEC 62386-101): 10–22,5 V
Stand-by consumption	max. 10 mA
Type of contact	µ-contact, floating, NO contact
Switching capacity at 250 V AC	13 A
Incandescent/halogen lamp load	1500 W
Fluorescent lamp load (conventional) lead-lag circuit	650 W
Inrush current	max. 500 A/200 µs
LED lamp < 2 W (typ.)	30 W
LED lamp > 2 W (typ.)	350 W
Type of protection	IP 20 (when fitted)
Protection class	II
Ambient temperature	–15 °C ... +50 °C

Scale drawings



Connection examples



Description

- 4-way DALI-2 push-button interface flush-mounted
- 4 inputs for connection of potential-free push-buttons
- Push-buttons of the contact type „normally open" or „normally closed" can be used, the contact type is adjustable in the memory bank
- 2 additional inputs for the connection of variable resistors, e.g. sliders, potentiometers or various Theben temperature sensors according to the standard IEC 62386 part 302, the selection of the sensor is done in the memory bank
- The identification of the push-button interface is indicated via the LED
- One DALI bus device and can be addressed accordingly according to 62386 part 102
- Power supply via the DALI bus
- Simple installation in commercially available flush-mounted boxes

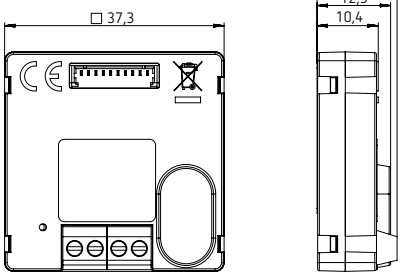
Product selection

Type	Article number
TA 4 S DALI-2	4960094

Technical data

	TA 4 S DALI-2
Operating voltage	DALI (according to IEC 62386-101): 10–22,5 V
Stand-by consumption	max. 10 mA
Type of contact	NO contact or opening contact
Contact voltage	5 V
Contact current	0,5 mA (5 mA peak)
Output voltage	5 V DC
Debounce time	50 ms
Resistance range	0 ... 100 kΩ
Measuring range temperature	–25 °C ... +75 °C / 0 °C ... +85 °C
Type of protection	IP 20 (when fitted)
Protection class	II
Ambient temperature	–15 °C ... +50 °C

Scale drawings



Accessories

External temperature sensor 1
↳ Art.No.: 9070191

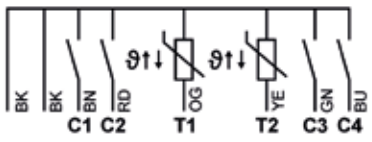
Temperature sensor
↳ Art.No.: 9070321

Temperature sensor RAMSES IP 65
↳ Art.No.: 9070459

Temperature sensor
↳ Art.No.: 9070489

Flush-mounted temperature sensor
↳ Art.No.: 9070496

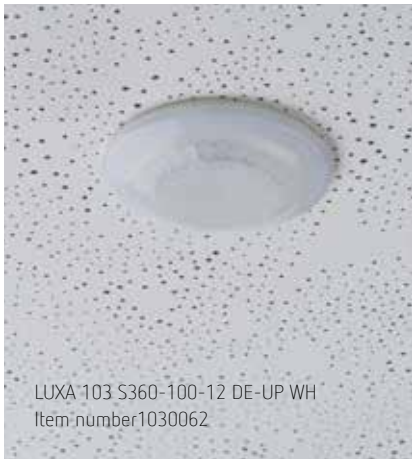
Connection examples



Presence detector LUXA 103
For indoor and outdoor use
More than standard

Theben LUXA 103 presence detectors are the versatile device family for efficient lighting and HVAC control both indoors and outdoors. The devices with a circular detection area are ideal for use in individual and open-plan offices, meeting rooms, storerooms, basements and toilets. LUXA 103 corridor sensors with a rectangular detection area control the lighting in corridors, walkways and hallways.

Thanks to the black, white and grey colour variants, the surface-mounted devices blend seamlessly into any interior or exterior design concept.



LUXA 103 S360-100-12 DE-UP WH
Item number1030062

LUXA 103 S360-100-12 AP with grey surface-mount frame, Item number 9070844

LUXA 103 S360-100-28 AP with black surface-mount frame, Item number 9070843

The highlights at a glance

- Elegant, timeless, flat design
- Convenient setting via an app and remote control, only remote control or potentiometers
- Simple installation and wiring
- Surface-mounted device, combination device for ceiling installation and flush mounting
- Corridor sensors with matching design
- Device variant with second channel for HVAC control
- Can be networked with other LUXA 103 devices or the the-Mura slave
- Integrated button input
- Perfect for high LED switching loads
- Protection class IP 54 for outdoor areas and wet rooms

Actual size just 13.5 mm!

Easy programming
via app and remote control

Bluetooth®

The theSenda Plug app for presence and motion detectors

It is particularly easy to program LUXA 103 presence detectors. The best way to do this is to use the theSenda B remote control in combination with the free theSenda Plug app. The parameters entered are sent by Bluetooth to the theSenda B remote control and from there are transmitted by infrared to the detector. This allows all LUXA 103 devices to be configured and operated easily, quickly and safely. Do you prefer a classic approach to programming? Then simply use the integrated potentiometers to configure the device.

The theSenda Plug app for iOS and Android automatically displays all installed detectors. Flexible parameter setting means that parameter sets can be saved specifically according to the customer, be filed in parameter libraries or be established externally and imported. This means that identical parameters can be set quickly, even in larger properties with many detectors.

Available on the App Store

GET IT ON Google play

Presence detectors, 230 V AC

LUXA 103 S360-100 DE-UP WH | LUXA 103 S360-101 DE-UP WH | LUXA 103 S360-100/101 AP WH

Description

- Passive infrared presence detector
- Circular detection area 360°, Ø 12 m (113 m²) at 3 m mounting height
- Extension of the detection area by parallel switching, a maximum of 8 detectors can be connected in parallel
- Networking with wall detector theMura Slave possible
- Connection option for push-button for manual switching
- Operation as fully or semi-automatic possible
- One directional brightness measurement (mixed light measurement)
- Teach-in function, pulse function, test function, staircase lighting function
- Ready for operation immediately due to factory presetting
- Changes of values and settings are possible with potentiometers and with one of these optional remote controls:
  - App / universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S / theSenda B
- Restriction of the detection range possible
- Also suitable for outdoor applications, by changing the installation location the detection range is reduced to Ø 8m

LUXA 103 S360-100-12 DE-UP WH

- Ceiling installation as supplied or flush-mounting by means of removable springs / protection cap and enclosed mounting frame
- 1 channel light (relay 230 V)

LUXA 103 S360-101-12 DE-UP WH

As LUXA 103 S360-100-12 DE -UP WH, but:

- 1 channel light (relay 230 V) and 1 channel presence (relay potential-free for HVAC control)

LUXA 103 S360-100-12 AP WH

- For surface-mounting
- 1 channel light (relay 230 V)

LUXA 103 S360-101-12 AP WH

As LUXA 103 S360-100-12 AP WH, but:

- 1 channel light (relay 230 V) and 1 channel presence (relay potential-free for HVAC control)

Product selection

Installation type	Channel	Colour	Type	Article number
Ceiling installation / flush-mounting	Light	White ○	LUXA 103 S360-100-12 DE-UP WH	1030052
	Light | Presence	White ○	LUXA 103 S360-101-12 DE-UP WH	1030053
Surface-mounting	Light	White ○	LUXA 103 S360-100-12 AP WH	1030062
	Light | Presence	White ○	LUXA 103 S360-101-12 AP WH	1030063
For surface-mounted version, further colours are possible with accessories (black ● and grey ● with surface-mounted box)				

Technical data

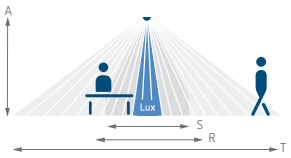
	LUXA 103 S360-100	LUXA 103 S360-101
Operating voltage	230 V AC	
Frequency	50 Hz	
Stand-by consumption	< 0,5 W	
Installation height	2,5 – 3,5 m	
Setting range brightness	5 – 1000 lx	
Light switch-off delay	15 s – 30 min	

Additional technical data at: www.theben.de / product / Articlenumber

	LUXA 103 S360-100	LUXA 103 S360-101
Incandescent / halogen lamp load	2300 W	
LED lamp (typ.)	400 W (cos φ ≥ 0,9)	
Switching capacity presence	–	50 W / 50 VA, max. 2 A
Switch-on delay presence	–	0 s – 10 min
Presence switch-off delay	–	10 s – 120 min
Ambient temperature	–25 °C ... +55 °C	
Type of protection	IP 54	

Detection area

Mounting height (A)	Diagonally (T)	Head on to (R)	Sitting (S)
2,5 m	78 m² | 10 m	28 m² | 6 m	13 m² | 4 m
3 m	113 m² | 12 m	28 m² | 6 m	20 m² | 5 m
3,5 m	78 m² | 10 m	28 m² | 6 m	20 m² | 5 m



Accessories

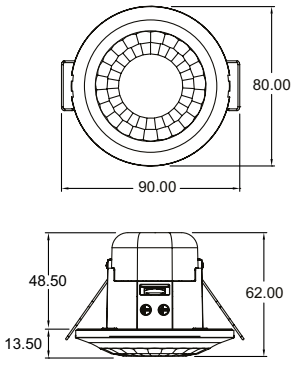
theSenda B App / universal remote control
Art.No.: 9070985

theSenda P service remote control
↳ Art.No.: 9070910

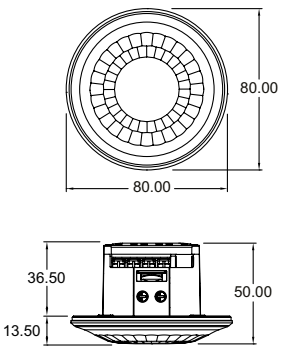
theSenda S user remote control
↳ Art.No.: 9070911

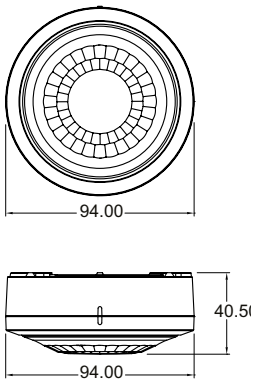
Cover 110 other colours (GR / BK)
↳ Art.No.: 9070591 / 9070851

Scale drawings



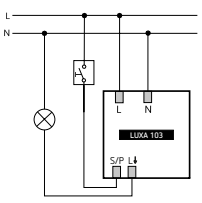
LUXA 103 S360 DE-UP WH



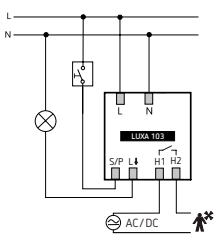


LUXA 103 S360 AP WH

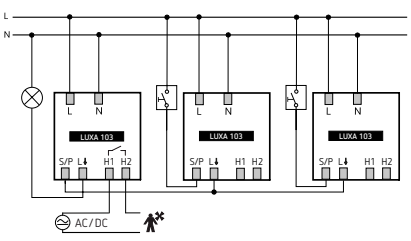
Connection diagrams



LUXA 103 S360-100



LUXA 103 S360-101



LUXA 103 S360-101,
in parallel connection with push-buttons

Presence detectors, 230 V AC

Description

- Passive infrared presence detector
- Rectangular detection area 360°, 28 x 5 m (140 m²) at 3 m mounting height
- 1 channel light (relay 230 V)
- Extension of the detection area by parallel switching, a maximum of 8 detectors can be connected in parallel
- Networking with wall detector theMura Slave possible
- Connection option for push-button for manual switching
- Operation as fully or semi-automatic possible
- One directional brightness measurement (mixed light measurement)
- Teach-in function, pulse function, test function, staircase lighting function
- Ready for operation immediately due to factory presetting
- Changes of values and settings are possible with potentiometers and with one of these optional remote controls:
  - App / universal remote control theSenda B
  - Service remote control theSenda P
  - Optional user remote control for manual override theSenda S / theSenda B
- Restriction of the detection range possible

LUXA 103 S360-100-28 DE-UP WH

- Ceiling installation as supplied or flush-mounting by means of removable springs / protection cap and enclosed mounting frame

LUXA 103 S360-100-28 AP WH

- For surface-mounting

Product selection

Installation type	Channel	Colour	Type	Article number
Ceiling installation / flush-mounting	Light	White ◯	LUXA 103 S360-100-28 DE-UP WH	1030072
Surface-mounting	Light	White ◯	LUXA 103 S360-100-28 AP WH	1030082
For surface-mounted version, further colours are possible with accessories (black and grey with surface-mounted box)				

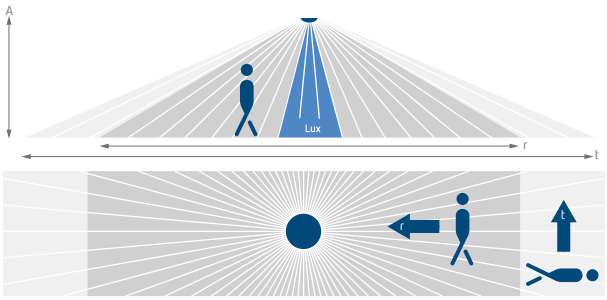
Tecnical data

	LUXA 103 S360-100-28
Operating voltage	230 V AC
Frequency	50 Hz
Stand-by consumption	< 0,5 W
Installation height	2,5 – 3,5 m
Setting range brightness	5 – 1000 lx
Light switch-off delay	15 s – 30 min
Incandescent / halogen lamp load	2300 W
LED lamp (typ.)	400 W (cos φ ≥ 0,9)
Ambient temperature	– 25 °C ... +55 °C
Type of protection	IP 54

Additional technical data at: www.theben.de / product / Articlenumber

Detection area

Mounting height (A)	Diagonally (T)	Head on to (R)
2,5 m	140 m² | 28 m x 5 m	70 m² | 14 m x 5 m
3 m	140 m² | 28 m x 5 m	70 m² | 14 m x 5 m
3,5 m	104 m² | 26 m x 4 m	60 m² | 12 m x 5 m



Accessories

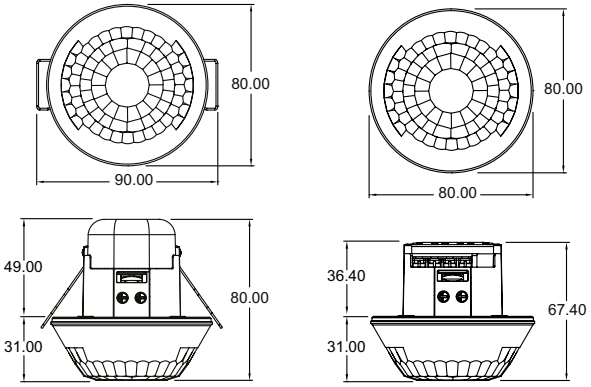
theSenda B App/universal remote control
↳ Art.No.: 9070985

theSenda P service remote control
↳ Art.No.: 9070910

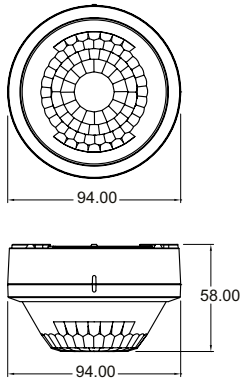
theSenda S user remote control
↳ Art.No.: 9070911

Cover 110 other colours (GR/BK)
↳ Art.No.: 9070591 / 9070851

Scale drawings

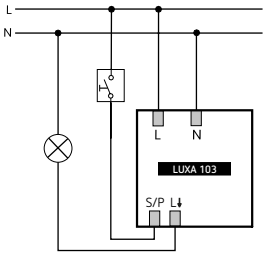


LUXA 103 S360-100-28 DE-UP WH

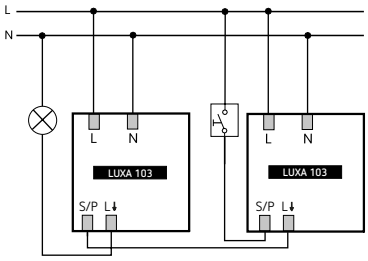


LUXA 103 S360-100-28 AP WH

Connection diagrams



LUXA 103 S360-100



LUXA 103 S360-100

We can also color
Presence and motion detector
Not just in white

Thanks to color variants in white, gray and black, our presence and motion detectors blend harmoniously into any room design, both indoors and outdoors. We also offer many models / accessories (on request) in special colours.

You can find out more about this at www.theben.co.uk

- ○ White
- ● Grey
- ● Black
- also available in special colors on request

Digital time switches Plug-in
theben-eltimo top3
More comfort, less power consumption

Comfort plus
Wake up to your favorite music and the smell of coffee instead of an unpleasant alarm tone.

Presence simulation (integrated random function)
Programming several timers in the house with different times. The house looks inhabited and is protected against burglaries. With astro program also depending on the season.

Energy saving
Operation of electrical devices without power-guzzling standby mode.

Go digital offline
of language assistants like an Alexa, WiFi router or repeater and more.

The classic
Turn on and off the Christmas tree or advent lighting.

Rescuer
Light and air in the aquarium exactly as needed

Air cleander
Reduce operating hours, maintenance cycles and operating costs

theben-eltimo 020 top3

theben-eltimo 020 Astro top3

Description

Common functions

- Digital plug-in timer
- Programming by app possible
- Safe transfer via optional Bluetooth Low Energy OBELISK top3
- Maximum manipulation security, time switch programs can only be transferred from the app to the time switch when the Bluetooth OBELISK top3 is plugged into the time switch
- 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 top3

- Digital plug-in timer with weekly program

theben-eltimo 020 Astro top3

- Digital plug-in timer with weekly and astronomical program

Product selection

Program	Number of channels	Memory locations	Time basis	Operating voltage	Type	Article number
Weekly program	1	56	Quarz	230 V AC	theben-eltimo 020 top3	0200130
Weekly program, Astronomical program	1	56	Quarz	230 V AC	theben-eltimo 020 Astro top3	0200170

Technical data

	theben-eltimo 020 top3
Operating voltage	230 V AC
Frequency	50 Hz
Installation type	Plug-in
Type of contact	NO contact
Power reserve	6 years
Switching capacity at 250 V AC, cos φ = 1	16 A
Switching capacity at 250 V AC, cos φ = 0,6	10 A
LED lamp < 2 W (typ.)	30 W
LED lamp < 2 W (typ.)	300 W
Incandescent/halogen lamp load 230 V	2600 W
Switching capacity	3680 W
Shortest switching times	1 min
Time accuracy at 25 °C	≤ ± 0,25 s/Tag (Quarz)
Stand-by consumption	0,5 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

Equipping you for day-to-day tasks
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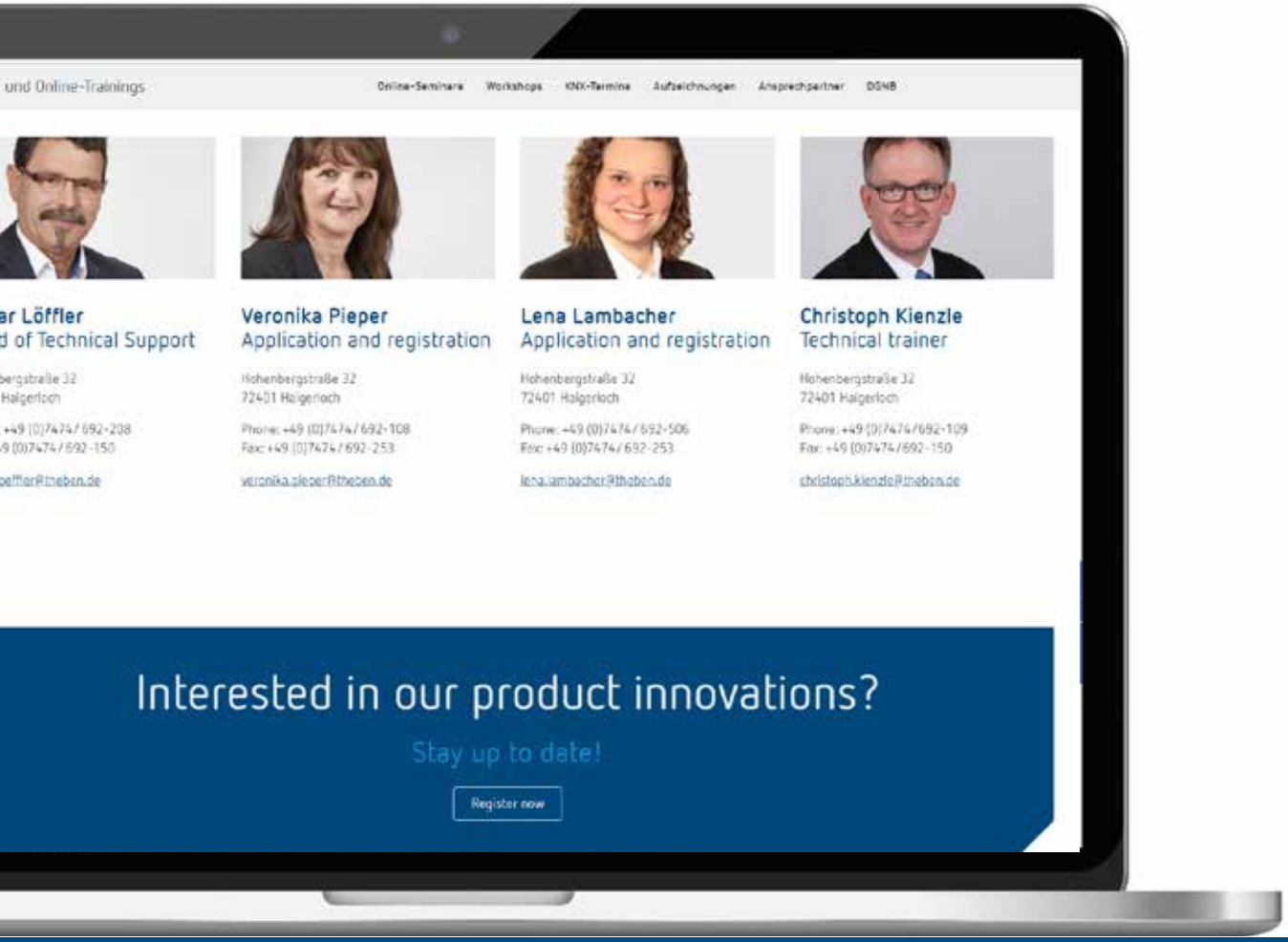

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→ iONplay
Program and control the iON 108 KNX Bluetooth room controller.

→ LUXORplay
Control and operate the LUXORliving smart home system with complete ease.

→ DALI-2 RS Plug
DALI-2 components simple commissioning.

→ thePixa Plug
Easily program and control the thePixa optical presence detector.

→ theSenda Plug
Easily program LED spotlights and presence and motion detectors.

→ OBELISK top3
Easily program digital time switches

→ MAXplus
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→ RAMSES BLE
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theben

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