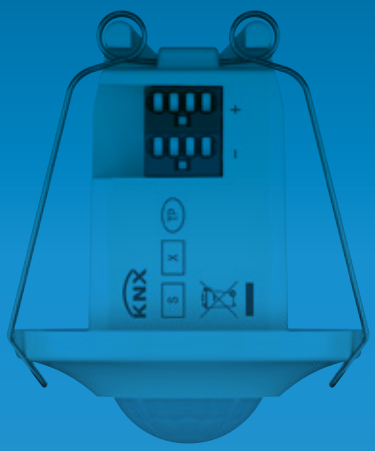
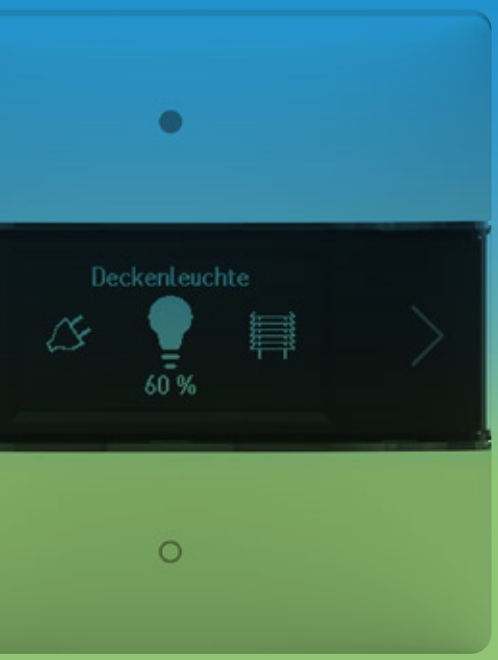
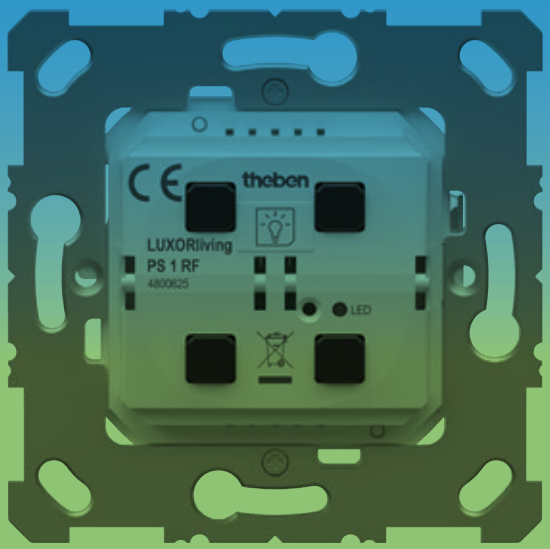
theben

Highlights #01 | 2024







Building Automation since 1921

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

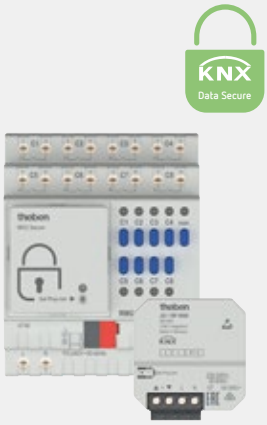
Building automation & smart home

Home and building automation

Weather station

Actuators

Weather station



Actuators
Gateways (KNX, DALI)

Control elements

Smart Home

Control elements

Presence detectors
Motion detectors

Presence & Motion Detectors, Lighting

Motion detectors
(230 V, KNX)

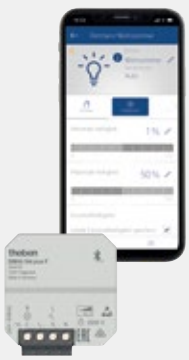
Presence detectors
(230 V, KNX, DALI-2)
Presence sensors
(DALI-2)

LED lights
(With and without a detector,
also remote controllable via app)

Time, light & climate control

Time switches
Staircase light time switches
Latching relays

Twilight switches



Dimming

Thermostats
CO_2 sensors

The choice is yours
LUXORliving Smart Home
Wired system

→ Wired system with the option of wireless expansion
→ Up to 128 TP and 64 RF devices with up to 900 functions can be controlled

System devices

Control center with LAN connection

Power supply unit

LUXORplug for setup LUXORplay for operation

Actuators

Switching actuator

Dimming actuator

DALI actuator

Roller shutter / blind actuator

Heating actuator

Button / interface

Push-button module

Media coupler

Split Unit Gateway

Sensors

Push-button interface

Push-button sensor

Room controller

Motion detector

Weather station

Room temperature controller

Binary input

The choice is yours
LUXORliving Smart Start
Wireless system with IP-RF system center

→ Wireless system for retrofitting existing buildings without KNX bus cable
→ Up to 30 RF devices with up to 30 functions can be controlled.

System devices

WI-FI

WLAN

LUXORplug for setup
LUXORplay for operation

IP-RF system center

NEW

KNX-RF

RF components

DALI actuator

Dimming actuator

Switching actuator

Roller shutter/blind actuator

Heating actuator

Button/interface

LUXORliving Smart Start
Retrofitting your smart home made easy

With the growing requirements for sustainable construction, the importance of renovating and retrofitting existing buildings is also increasing. But how can rental apartments, single and multi-family homes, classrooms, stores or offices be retrofitted with KNX-based smart home functions if no KNX cable has been laid? And with as little effort as possible? LUXORliving Smart Start makes it possible!

Lots of smarter advantages

LUXORliving Smart Start is the complete wireless solution for the smart home with all the functions you really need today and in the future. Without KNX bus. Without control center and power supply in the distributor. Without media coupler. And above all: without ETS. Getting into the smart home can be so simple and future-proof.

Completely flexible

Practical system center as room controller, can be used with push-button actuator modules or flush-mounted RF actuators for switching, dimming, blinds

30 functions

Switching, dimming, drives, climate, scenes, groups, central OFF, panic function, window contacts, time control, astro function and much more.

Radio-based

Standardized wireless protocol KNX RF1.R

Setup without ETS

Simply via LUXORplug Windows software

Convenient operable

Via system center, push-button, LUXORplay app and voice. Remote control via Theben Cloud possible

Flexibly expandable

Integration of Amazon Alexa, Google Assistant, IFTTT and much more.

Cost-effective

Without system devices such as power supply and media couplers and without an ETS license, costs can be significantly reduced

Future-proof

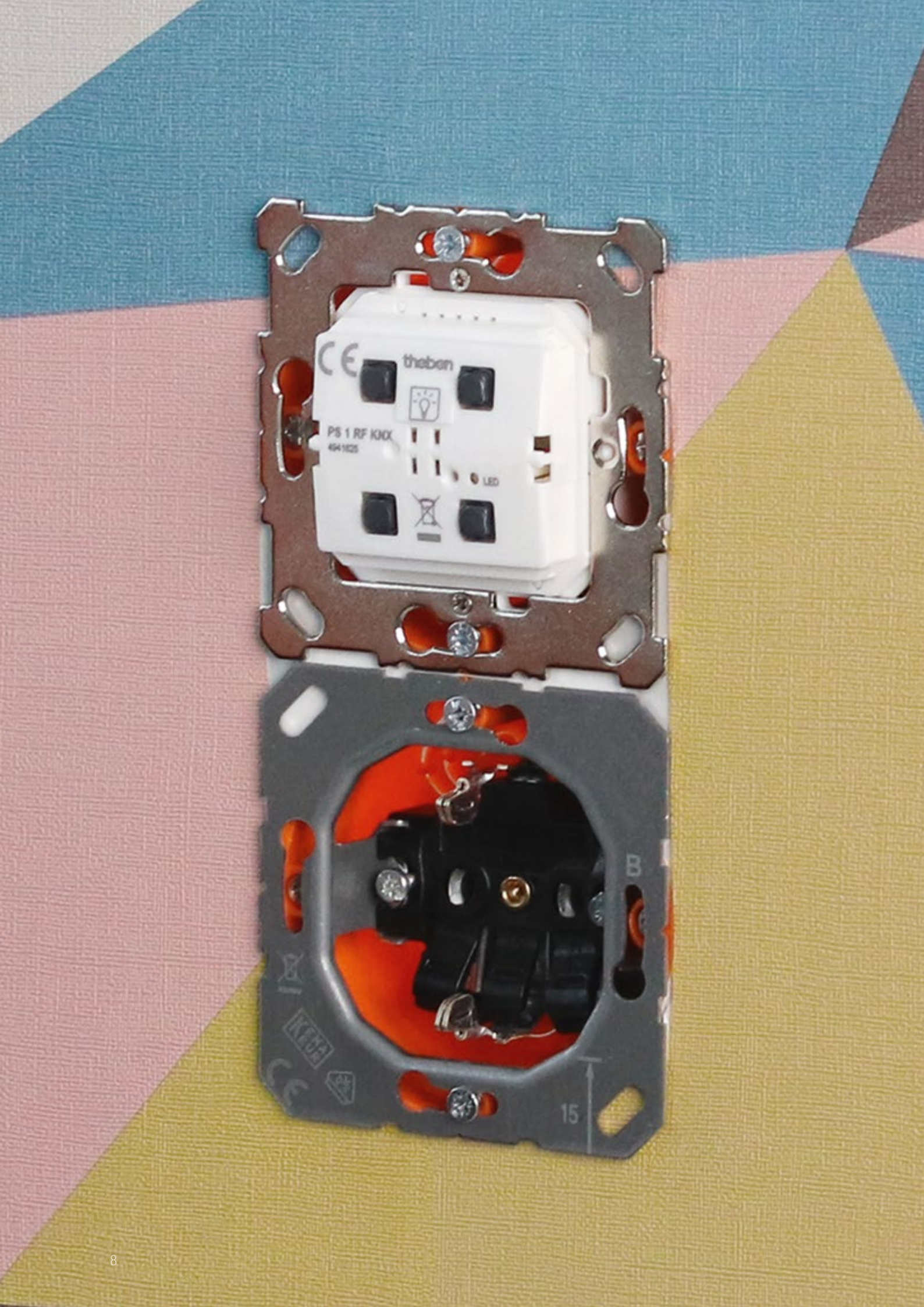
KNX-based solution, later integration into wired system possible

Safe

Tamper-proof wireless communication with KNX Data Secure

Quick mountable

Significant time savings thanks to flat push-button actuator modules instead of conventional wireless flush-mounted actuators and push-buttons


theben
PS 1 RF KNX
LED
B
15

Smart Home functions simply retrofitted wireless: With Theben RF push-button actuator modules

The new RF push-button actuator modules from Theben combine a KNX RF actuator (dimming, switching, blind control) with a push-button. The devices with an installation depth of just 25.6 mm are compatible with many 55 mm switch ranges and can be easily installed in conventional switch boxes. Thanks to KNX Data Secure, they are optimally protected against data theft and manipulation. Wired KNX and LUXORliving smart home systems can be quickly and easily retrofitted with smart functions in this way.

Theben RF push-button actuator modules are available in variants for native KNX systems and for the KNX smart home system LUXORliving. They are also used in the complete LUXORliving SmartStart wireless system. KNX and LUXORliving RF push-buttons with integrated temperature sensor are also available for retrofit projects.

Common properties

- Quick installation due to low installation depth of only 25.6 mm
- Simple replacement of conventional switches
- Compatible with many 55 mm switch ranges
- 1-/2-way rockers (incl. retaining frame) available as accessories

Versatile presence detector
Lighting and HVAC control
Now also for KNX and LX

Theben is expanding the LUXA 103 presence detector series for efficient indoor and outdoor lighting and HVAC control with a KNX version. The LUXA 103 S360-12 KNX with circular detection area (360°, Ø 12 m at 3 m mounting height) is ideal for individual and open-plan offices, meeting and storage rooms, cellars and toilets. The LUXA 103 S360-28 KNX with rectangular detection area (360°, 28 x 5 m at 3 m mounting height) acts as a special corridor detector. Both Devices each have 2 light and HVAC channels and 3 logic channels.

NEW!

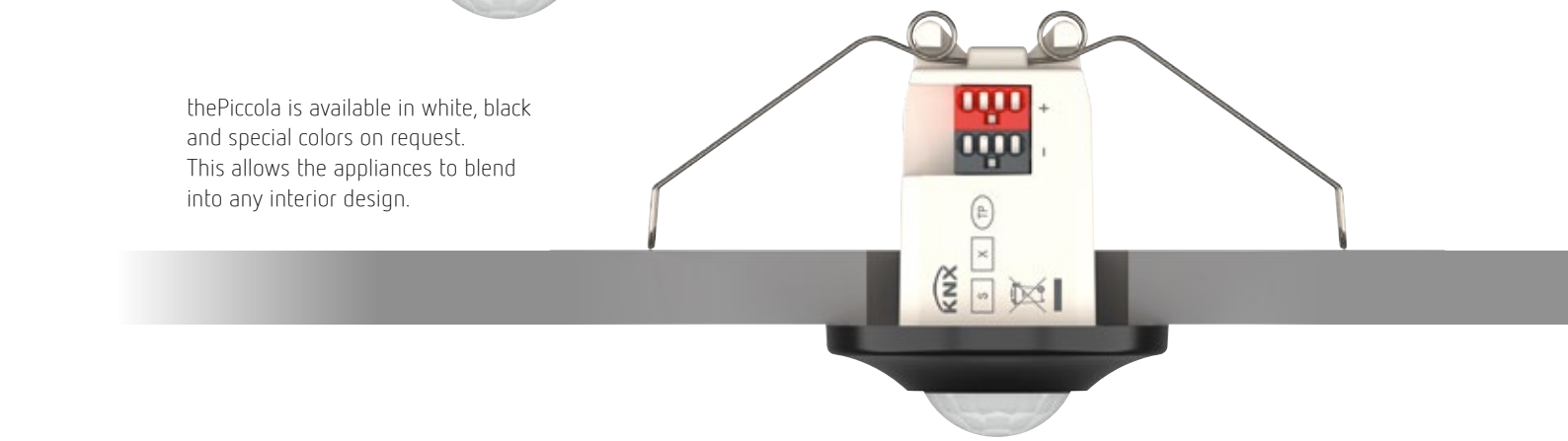
Now also for KNX and the LUXORliving smart home system

The devices are suitable for simple flush-mounted installation, surface-mounted or recessed ceiling installation are also possible with optional accessories.
The surface-mounted housings in black, white or gray fit into any interior design.
The integrated temperature sensor for HVAC control makes an external sensor superfluous.

LUXA 103 S360-12 KNX UP

LUXA 103 S360-28 KNX UP

thePiccola is available in white, black and special colors on request. This allows the appliances to blend into any interior design.



Added security with KNX Data Secure:
thePiccola KNX
Mini presence detector

The new thePiccola Mini presence detectors for KNX systems are protected against tampering thanks to KNX Data Secure.

The new generation of thePiccola Mini presence detectors are now also available as KNX versions. KNX Data Secure ensures optimum protection against data theft and manipulation. The electronics have now been integrated into the one-piece device housing. This simplifies ceiling installation considerably, especially in suspended ceilings. In addition, thePiccola is not only available in white, but also in black. This allows the appliances to blend into any interior design. The „swarm light" dims the neighboring lights in the room to a desired level, creating a pleasant lighting mood and saving energy at the same time. Two devices in one: thePiccola KNX Mini presence detector is equipped with a temperature sensor, saving the installation of a separate device.

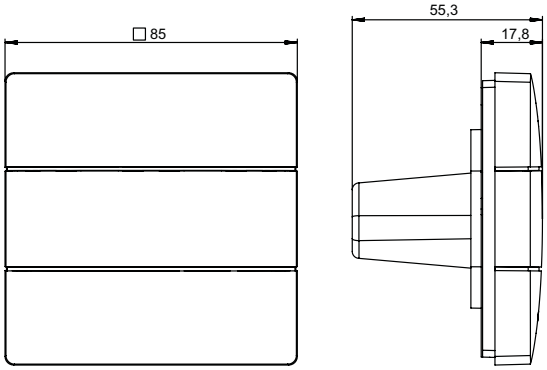
The particularly compact design with a sensor head just 45 mm wide remains unchanged. In combination with the 360° detection area and max. 8 m diameter, thePiccola is ideal for smaller rooms in residential and functional buildings such as workplaces, toilets, storage rooms or corridors. The IP55 protection class also enables reliable use in damp rooms.

LUXORliving control center IP-RF

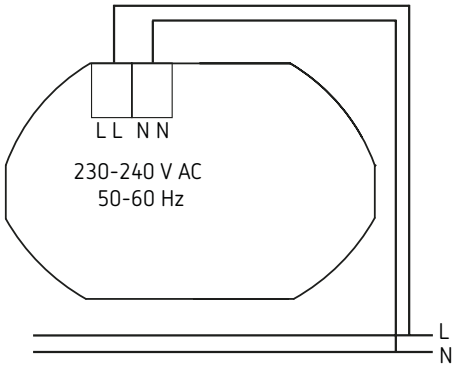
- Control center for LUXORliving Smart Start and room controller for 30 functions
- WLAN interface for communication with LUXORplug commissioning software and LUXORplay operating app
- KNX-RF interface for controlling the LUXORliving wireless actuators or push-button actuator modules
- The KNX wireless system LUXORliving Smart Start requires no system devices such as media couplers or power supply in the distributor and, above all, no ETS
- Up to 30 wireless actuators or push-button actuator modules can be integrated
- Available functions: Switching, dimming (also DALI), blind control, room climate control
- Integrated timer with astro function
- Encrypted communication in the system (KNX Data Secure)
- Remote control optionally possible via the secure Theben Cloud
- Possibility of integration with Amazon Alexa, Google Home and IFTTT via Theben Cloud

Type	Art.-No.
LUXORliving IP-RF	4800000

Scale drawings



Connection diagram



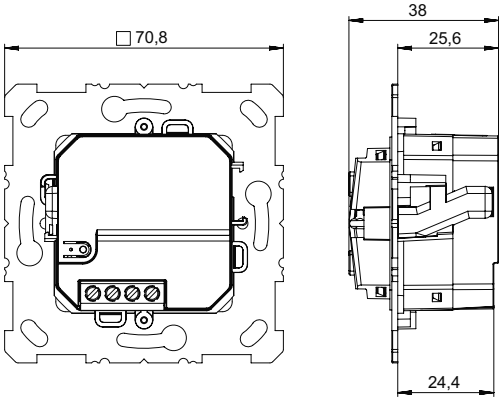
LUXORliving push-button actuator modules

- LUXORliving push-button actuator modules for various functions (operating, switching, dimming, blinds), KNX RF
- 4 touch points
- Can be used universally in many 55 mm switch programs
- Quick and easy conversion of conventional installations
- 1-way or 2-way rockers required as separate accessories, article numbers 9080026, 9080027)
- Safe commissioning and communication through
- Support for KNX Data Secure
- LUXORliving PB 4 RF: Integrated temperature sensor

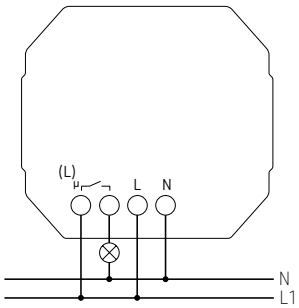
Number of channels	Type	LED lamp	Type	Art.-No.
1	Flush-mounted switching actuator RF with 4 touch points	600 W	LUXORliving PS 1 RF	4800625*
1	Flush-mounted blind actuator RF with 4 touch points	–	LUXORliving PJ 1 RF	4800655*
1	Flush-mounted dimming actuator RF with 4 touch points	250 W (RC mode)	LUXORliving PD 1 RF	4800675*
1	Flush-mounted push-button RF with 4 touch points	–	LUXORliving PB 4 RF	4800615*

* Available from May 2024

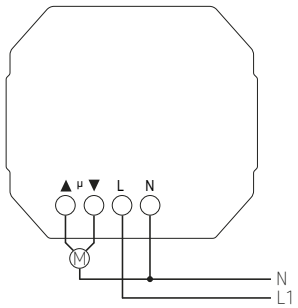
Scale drawings



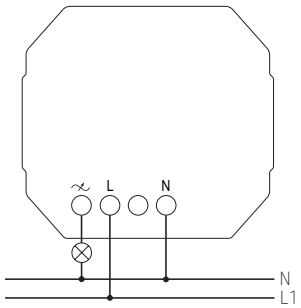
Connection diagrams



4800625



4800655



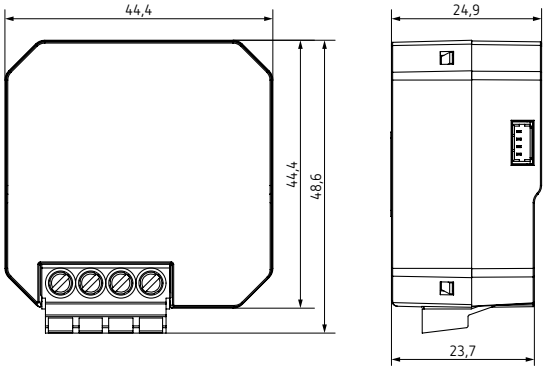
4800675

LUXORliving flush-mounted actuators RF

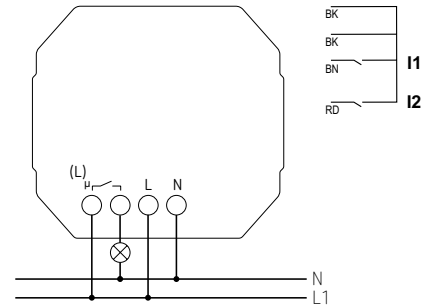
- Flush-mounted LUXORliving actuators RF for various functions (operating, switching, dimming, blinds)
- Easy installation thanks to particularly compact housing
- 2 binary inputs for potential-free contacts such as push-buttons, switches, window contacts, temperature sensor (input I2, with accessories 9070321,9070459,9070496)
- Integrated temperature monitoring for increased operational safety, e.g. in case of overload
- The binary inputs are assigned to the output ex works (function test before programming)

Number of channels	LED lamp	Function	Type	Art.-No.
1	600 W	Flush-mounted switching actuator RF	LUXORliving S1 S RF	4800621
1	250 W	Flush-mounted dimming actuator RF	LUXORliving D1 S F	4800671
1	–	Flush-mounted DALI actuator RF	LUXORliving D1 DALI S RF	4800681
1	–	Flush-mounted blind actuator RF	LUXORliving J1 S RF	4800651
1	–	Flush-mounted heating actuator RF	LUXORliving H1 S RF	4800641
1	–	Flush-mounted heating actuator RF for elecric heaters	LUXORliving E1 S RF	4800642

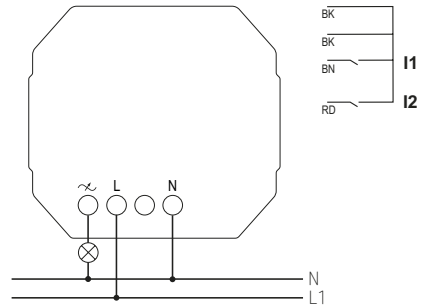
Scale drawings



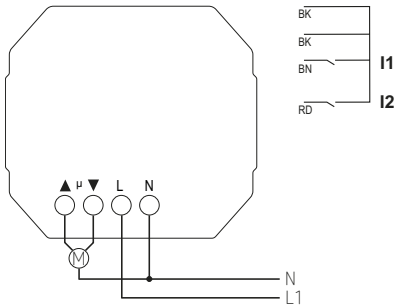
Connection diagrams



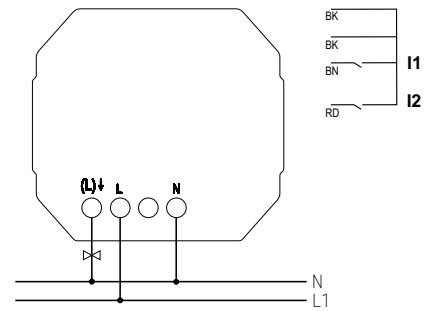
4800621



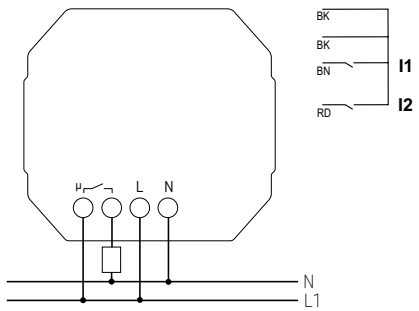
4800671



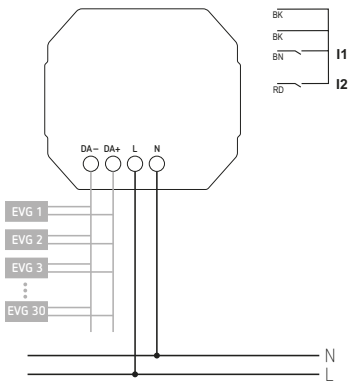
4800651



4800641



4800642



4800681

Further technical data at: www.theben.de/product/Art.-No.

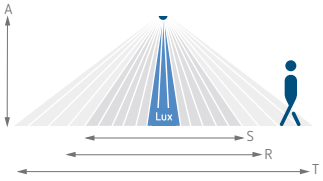
LUXORliving motion detector ceiling mounting

NEW

- Motion detector (PIR) for ceiling mounting indoors
- Circular detection area 360°, Ø 12 m (113 m²) at 3 m mounting height
- Mixed light measurement
- Integrated temperature sensor
- Extension of the Detection areas through parallel connection
- Adjustable sensitivity
- Surface mounting possible with accessories (9080019, 9080020, 9080021)

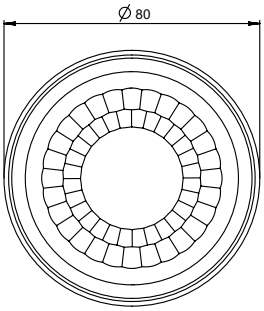
Mounting type	Colour	Type	Art.-No.
Flush-mounted ceiling installation	White	LUXORliving BI360 WH	4800355

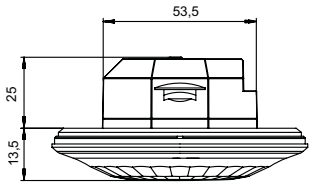
Detection areas



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

Scale drawings





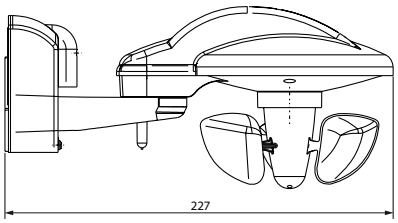
LUXORliving weather station

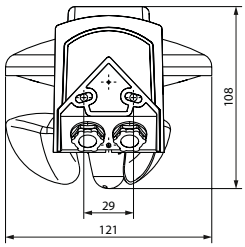
NEW

- Combination sensor/weather station LUXORliving
- For detecting wind, rain, brightness and temperature
- Rain sensor with heating
- For fully automatic blind and sun shading control
- Recording and evaluation directly in the device
- Sun protection for up to four façades thanks to 3 integrated brightness sensors
- Display of weather data e.g. with LUXORliving app „LUXORplay"

Operating voltage	Type	Art.-No.
24 V DC	LUXORliving M140 24V	4800493

Scale drawings



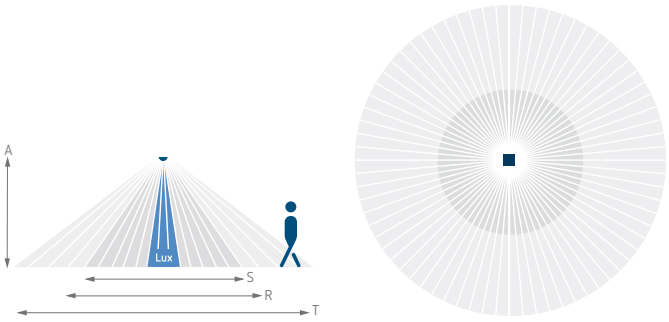


Presence detector LUXA 103 S360-12 KNX flush-mounted

- Presence detector (PIR) for flush-mounted ceiling installation indoors
- 360° circular detection area, Ø 12 m (113 m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 3 logic channels (AND/OR/XOR)
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable for outdoor use
- Test operation to check function and Detection areas
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

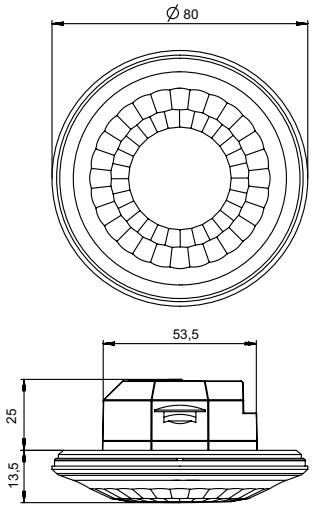
Mounting type	Detection area diagonally	Channels	Color	Type	Art.-No.
Ceiling flush-mounted	113 m² (ø 12 m | 360°)	2 x light | 2 x presence	White	LUXA 103 S360-12 KNX UP WH	1039052

Detection range



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

Scale drawings



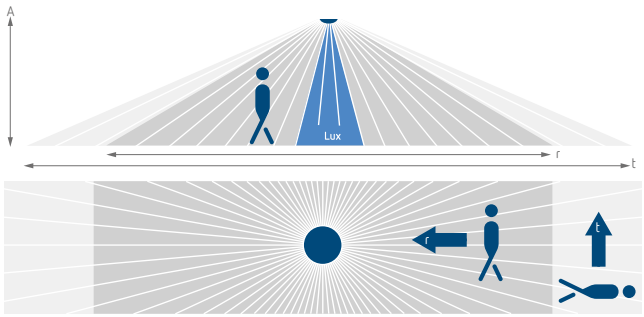
Further technical data at: www.theben.de/product/Art.-No.

Corridor presence detector LUXA 103 S360-28 KNX flush-mounted

- Presence detector (PIR) for flush-mounted ceiling installation indoors
- Rectangular detection area 360°, 28 x 5 m (140m²) at 3 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- 2 channels of light with 1 light measurement
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 3 logic channels (AND/OR/XOR)
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable for outdoor use
- Test operation to check function and Detection areas
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

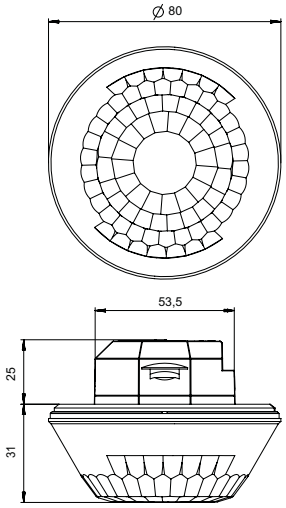
Mounting type	Detection area diagonally	Channels	Color	Type	Art.-No.
Ceiling flush-mounted	140 m² (28 x 5 m)	2 x light | 2 x presence	White	LUXA 103 S360-28 KNX UP	1039072

Detection range

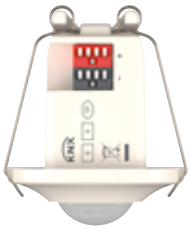


Mounting height (A)	Diagonally (T)	Head on to (R)
2,5 m	140 m² | 28 m x 5 m	70 m² | 14 m x 5 m
3 m	140 m² | 28 m x 5 m	70 m² | 14 m x 5 m
3,5 m	104 m² | 26 m x 4 m	60 m² | 12 m x 5 m

Scale drawings



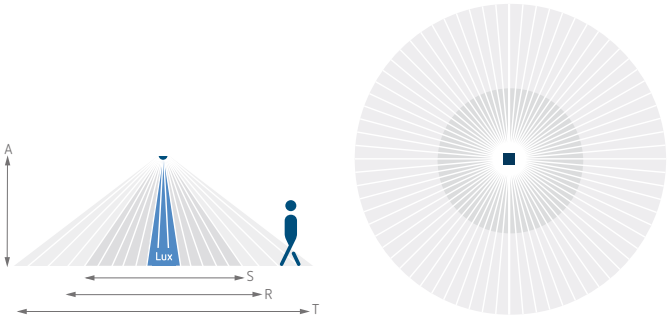
KNX presence detector thePiccola KNX



- Passive infrared presence detector for ceiling mounting EN
- Circular detection area 360°, Ø 8 m, (50 m²) at 2.5 m mounting height
- For KNX bus system, 2 channels light and 2 channels presence for HVAC control
- Automatic lighting control with constant light control or switching operation
- Dimmable lighting in switching mode with and without daylight influence
- Integrated temperature sensor
- Day / night switchover via telegram
- Stand-by functionality (orientation light)
- 6 logic channels (AND/OR/XOR)
- Aura function
- Room multiplier function
- KNX Data-Secure
- Operation as fully or semi-automatic possible
- Manual override possible via external KNX push-buttons
- One directional brightness measurement (mixed light measurement)
- Simple adjustment of the brightness measurement
- Short-term presence
- Selectable control speed
- Teach-in function
- Scene functionality
- Locking functions
- Switch-on delay and run-on time presence adjustable
- Extension of the Detection areas through parallel connection
- Detection sensitivity adjustable
- Test operation to check function and Detection areas
- Setting via ETS software (full range of functions)
- Setting via remote control/APP or APP (BLE)

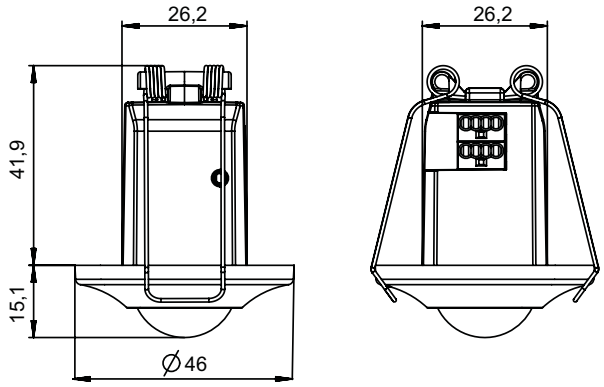
Mounting type	Detection area diagonally	Channels	Color	Type	Art.-No.
False ceilings	50 m² (ø 8 m | 360°)	2 x light | 2 x presence	White	thePiccola P360 KNX DE WH	2099200
			Black	thePiccola P360 KNX DE WH + Cover 64 BK	2099200 + 9070797
	Other colors available on request!				

Detection range



Mounting height (A)	Sitting (S)	Diagonally (T)	Head on to (R)
2,5 m	3 m² | 2 m	50 m² | 8 m	3 m² | 2 m

Scale drawings



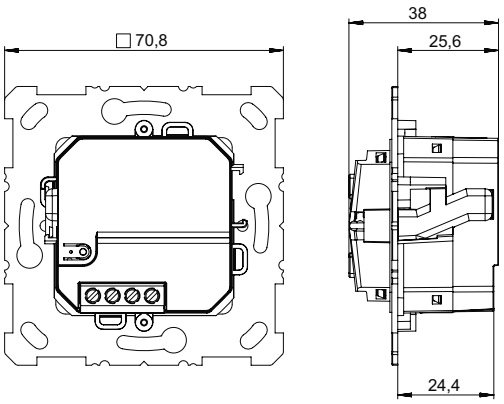
KNX push-button actuator modules

- KNX push-button actuator modules for various functions (operating, switching, dimming, blinds), KNX RF, Data Secure
- 4 touch points
- Can be used universally in many 55 mm switch programs
- Quick and easy conversion of conventional installations
- 1-way or 2-way rockers required as separate accessories, article numbers 9080026, 9080027)
- Secure commissioning and communication through support of KNX Data Secure
- PB 4 RF KNX: Integrated temperature sensor

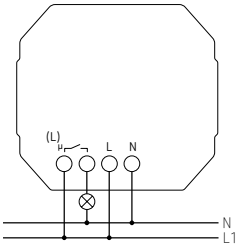
Number of channels	Function	LED lamp	Type	Art.-No.
1	Flush-mounted switching actuator RF with 4 touch points	600 W	PS 1 RF KNX	4941625*
	Flush-mounted blind actuator RF with 4 touch points	-	PJ 1 RF KNX	4941655*
	Flush-mounted dimming actuator RF with 4 touch points	250 W (RC mode)	PD 1 RF KNX	4941675*
	Flush-mounted push-button RF with 4 touch points	-	PB 4 RF KNX	4961615*

* Available from May 2024

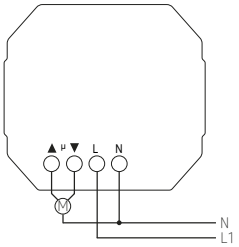
Scale drawings



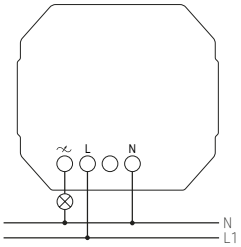
Connection diagrams



4941625



4941655



4941675

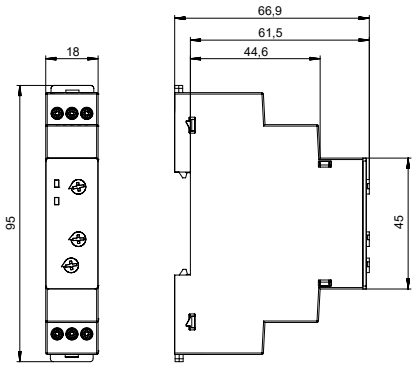
Electronic time relay

NEW

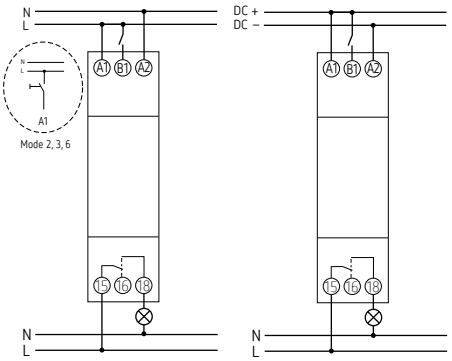
- Electronic time relay
- Latching rotary switches for selecting the time range and the following 10 operating modes:
- Response delay (AV)
- Clock generator (TG)
- Clock generator (TP)
- Relapse delay (RV)
- Response and release delay (RV)
- Response and release delay (VZ)
- Additive response delay (AVC)
- Pulse function (IP)
- Switch-on wipe (EW), without control contact
- Function on-wiping (EW)
- Switch-off wiping function (AW)
- Surge function (SV)
- Universally applicable for controlling automatic processes on machines, lighting, ventilation, heating, barriers, etc.
- Precise Analogue time setting
- Multi-voltage input for all supply and control voltages, no wire jumpers or additional terminals required
- LED for displaying the switching status
- Width voltage range 12–240 V AC/DC
- High time range 0.1 sec to 100 h
- High switching capacity 16 A

Type	Art.-No.
TM 345 MF	3450733

Scale drawings



Connection diagrams



	Description	Suitable for	Art.-No.
	Surface box LUXA 103 B WH • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Color: White	LUXA 103 KNX/ LUXORliving BI360	9080019
	Surface box LUXA 103 B GR • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Color: Concrete grey	LUXA 103 KNX/ LUXORliving BI360	9080020
	Surface box LUXA 103 B BK • Surface-mounted frame for LUXA 103 KNX/LUXORliving BI360 • Color: Black	LUXA 103 KNX/ LUXORliving BI360	9080021
	Rocker 1-way WH • 1-way rocker for LUXORliving and KNX push-button actuator modules (including mounting frame)	Push-button actuator modules LUXORliving and KNX	9080026
	Rocker 2-way WH • 2-way rocker for LUXORliving and KNX push-button actuator modules (including mounting frame)	Push-button actuator modules LUXORliving and KNX	9080027
	Surface box iON WH • Housing for surface-mounted installation of iON LUXORliving and KNX • Color white	iON	9080024
	Surface box iON BK • Housing for surface-mounted installation of iON LUXORliving and KNX • Color black	iON	9080025

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