# theben

energy saving comfort

## Illuminating, intuitive, comfortable
New Products 2016

# Energy saving comfort

Behind each and every one of our products and systems is the idea of only using energy when it is absolutely necessary. Whether for regulating the heating and room temperature. Or switching on or dimming the light when people in or around buildings seek guidance, comfort and safety in the dark. This is how each of our product solutions contributes towards energy efficiency and sustainable savings in energy use.

# Lighting and light control

## Mini motion & presence detectors

## Pre-assembled detectors

## Presence detectors

## LED spotlights with motion detectors

## Flush-mounted dimmers

# KNX house & building automation

## Actuators for functional buildings

## KNX actuators

# Overview

Original size

# thePiccola
## Smaller, more intelligent, more sensitive
Whether used as a motion or presence detector,
nothing gets past the new mini detectors from Theben

# Minimum dimensions
## for maximum lighting control



**Beautiful detail:** thePiccola is available as a motion detector and as a presence detector. Both detector types look the same, which guarantees a uniform appearance in all rooms and building areas.

thePiccola, the new mini detector from Theben, measures just 45 millimetres. With the droplet-shaped design common amongst all Theben presence and motion detectors, thePiccola fits cleanly and elegantly into the ceilings of storage rooms, toilets and short passageways. This makes it barely noticeable. Its performance features, however, certainly do make it stand out: thePiccola switches the light on taking the room brightness and the presence of people into consideration.

What's more, it features the wide range of impressive functions that you have come to expect from Theben products such as quick and easy installation thanks to spring clips and the ability to setup the detector either directly on the sensor head or conveniently from the ground via remote control (only thePiccola P). And the whole package is rounded off nicely with the test, teach-in and pulse functions.

Thanks to its high-performance relay with tungsten pre-contact, the high LED switch-on currents are no problem at all for thePiccola.



4 metres seated
5 metres moving in front
8 metres moving across
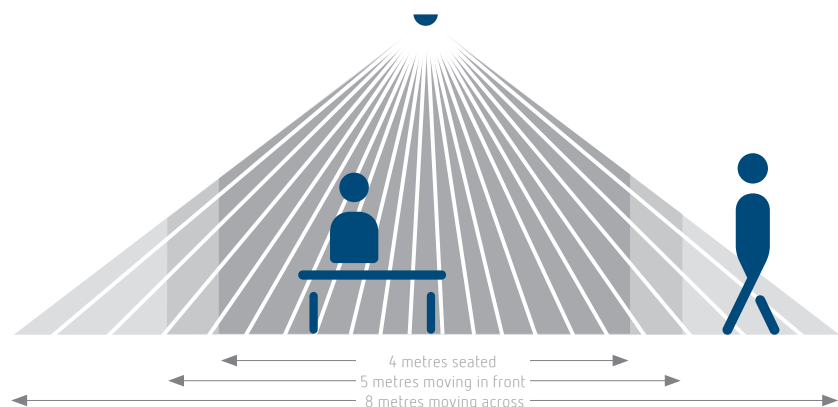
**Extensive detection:** nothing gets past this little detector. As a presence detector, thePiccola detects every seated motion within a 4-metre diameter. As a motion detector, it can cover even an area of 50 m² (installation height 2,5m).

# Hidden champion
## thePiccola motion and presence detector

If you look behind the scenes, it becomes clear that in thePiccola the sensor head and power supply unit are going their separate ways. The result is a small sensor head with a diameter of just 45 mm. The power supply unit can be tucked away in false ceilings.

**Common functions of thePiccola motion detector and presence detector**

### High switching capacity

10 A − 3 AX 230 V~

Its high-performance relay with tungsten pre-contact allows thePiccola to handle switch loads of up to 10 amperes. This means that LED lamps with their high switch-on currents are not a problem.

### Quick assembly and installation

< min

thePiccola is quick and easy to assembly: the separate power supply unit is stored in the false ceiling. The sensor head is then easily anchored in the suspended ceiling by means of the spring clips. And that's it done.

### Practical pulse function

The pulse function allows thePiccola to be integrated into existing electrical installations with staircase light timer switches or KNX binary inputs without the need for expensive adjustments.
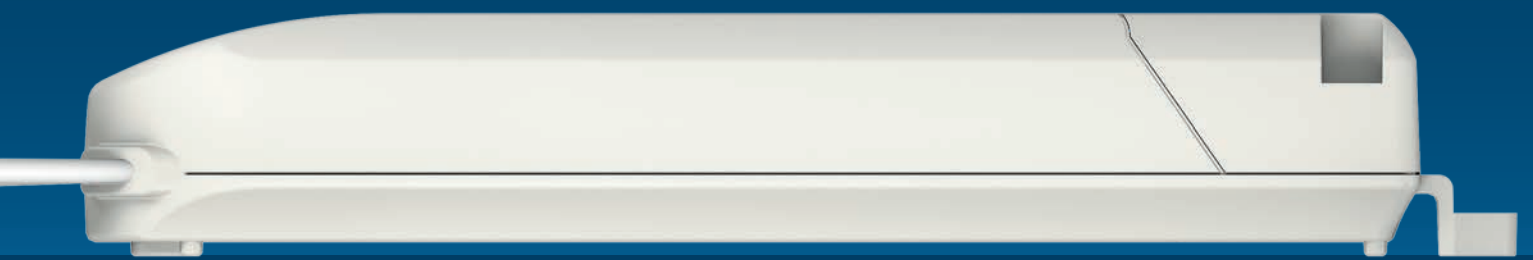
### Simple setting

No interrupted coverage, no long searches: the adjusters are clearly visible, easily accessible and simple to set using a screwdriver.

### Practical test function

With thePiccola, you can avoid detection errors from the outset: using the practical test function, the detection area can be established, set and optimised immediately after installation.

### Reliable teach-in function

Lighting conditions change quickly – so it's good when you can simply save them when they are exactly how you want them. With the reliable teach-in function, the current lux value can be permanently maintained by setting it on the potentiometer. This can also be done on thePiccola P with the push of a button via the theSenda P remote control. Without specialist knowledge. By the end user. It couldn't be easier.

### Master/slave parallel switching

thePiccola S motion detector makes it possible to increase the detection area via master/slave switches.

### Easy-to-use remote control

With the theSenda P remote control, settings can be conveniently made and changed from the ground. This is faster, shortens the installation time and lowers costs. And, what's more, it's safer. The end user can use the theSenda S remote control for a variety of things, such as for calling up two lighting scenarios; for example, for presentations: light off and projector on.

### Manual switch on

With the manual actuation, the light can be switched on and off using a button. If the light is switched on manually, it stays on as long as people are present (plus time delay). Then the light goes into the set automatic mode. If the light is switched off manually, it stays off as long as people are present (plus time delay). Then the light goes back to automatic mode.

theMova, theRonda and compact passage
Pre-assembled, plug-in, quicker to install
Presence and motion detectors with WAGO
and Wieland connectors

# Plug & play in the building sector
## That's installation nowadays

**Put it together, snap it in place and you're done:** Theben offers the following detectors with WAGO WINSTA MIDI or WIELAND GST connector options:
- theMova S360-100
- theMova P360-100
- theRonda S360-100
- theRonda P360-100
- compact passage

Time is money. And that's why quick, safe and simple installation is real unique selling point these days. Especially in big projects with large quantities. Theben assists you here with pre-assembled motion and presence detectors. As a result, you lower you assembly times and save your customers significant costs. And the highlight is that they're so easy to assemble that even employees with no training in electrical installation can do it. It's easy: put it together, snap it in place and you're done.

Benefit from the proven, powerful ThebenHTS detectors with high detection quality, remote control operation as well as pulse, test and teach-in functions. All of these functions are now also available with the practical, pre-assembled connectors from the two premium manufacturers, WAGO and Wieland.
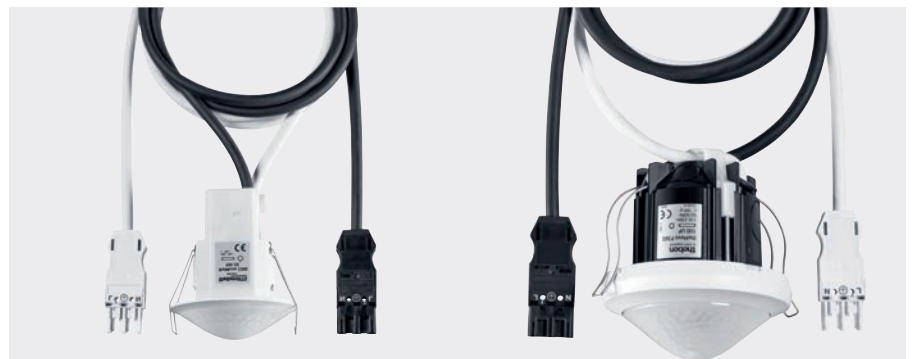
**On-time delivery is one of our top priorities:** we provide you with every pre-assembled detector ex stock. Quick and simple.

# theRonda S and P
## More sensitive, more extensive, more versatile
The new presence detectors have it all and feature impressive, powerful functions

# An all-round success
## When presence matters

**theRonda:** Perfect light control for individual offices with daylight incidence, wet rooms and rooms like sports halls and entrance areas.

theRonda P – the powerful performance version that features the round, extremely large detection area with a diameter of up to 24 metres – has a new addition to the family. The new standard version, theRonda S, is the ideal presence detector when it comes to reliable detection in smaller office rooms, side rooms with daylight incidence, and wet rooms. And when it comes to functionality, it certainly keeps up with its big brother, theRonda P, offering all the advantages you might expect from ThebenHTS – from mixed light measurement, adjustable sensitivity, right through to the test function.

Especially practical is the reliable teach-in function, thanks to which theRonda S remembers the desired brightness value. All it requires is a touch of a button on the remote control. The unobtrusive presence detector with the chic, droplet-shaped design is quick and easy to install in the ceiling thanks to the spring clips. Alternatively, a version for surface mounting is also available.

Alongside the new standard version, ThebenHTS now also offers theRonda P with master/slave and master/master functionality. The advantage is that this can be used significantly increase the detection area. Perfect for sports halls and large entrance areas.

**A question of adjustment:** theRonda P can be adjusted via easily accessible adjusters or via the theSenda remote control. theRonda S factory settings are easy to adjust with the bush of a button via remote control.

# More convenient and more energy-efficient
## The advantages when using theRonda

Like all Theben solutions, theRonda is easy to install and operate. Another advantage is the round, discreet and at the same time award-winning design that theRonda and theMova have in common. Ideal for those who love a unified room and building aesthetic.

**Splash-proof:** once installed, theRonda has an enclosure rating of IP 54, making it the ideal choice for wet rooms. Hardly surprising, then, that it blows all other detectors in its class out of the water.

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### Configurable sensitivity

How sensitively theRonda reacts to movement in the room is completely up to you. The PIR sensors can be conveniently set using the remote control – according to the individual requirements of the users.

### Versatile installation options

As well as the surface-mount version, theRonda S is also available as a ceiling installation version with a reliable spring system. theRonda P can is suitable for both flush-mounting and, with an additional back box, surface-mounting.

### Permanent light measurement

theRonda not only registers movements in the room but also permanently measures the brightness. This means that when there is sufficient daylight, it switches the artificial lights off, and when there is not enough it switches them back on. This also improves comfort and reduces energy consumption.

### Practical test function

With theRonda, you can avoid detection errors from the outset: using the practical test function, the detection area can be established, set and optimised immediately after installation.

### Clever teach-in function

Lighting conditions change quickly – so it's good when you can simply save them when they are exactly how you want them. With the clever teach-in function, the current lux value can be permanently maintained. Without specialist knowledge. By the end user. It couldn't be easier.

### High switching capacity

Its high-performance relay allows theRonda to handle switch loads of up to 10 amperes. As a result, several lamps can be connected at the same time and larger areas can be lit. This improves planning security, lowers costs and reduces installation times.

## theRonda P

### Intelligent parallel switching

theRonda allows for more than just increasing the detection area via the master/slave switches. Lighting conditions in the detection areas of individual devices can be set independently, without depending on other devices and therefore individually using master/master parallel switches. This is an advantage if, for instance, in open-plan offices, different lighting conditions are to be balanced between areas close to windows and the room's interior.

### Push button/ switch recognition

theRonda automatically detects whether a push button or switch is connected. This makes installation easier for you and rules out any installation errors from the outset.

### Illuminating short stays

In the event of a short stay, the light is only on for two minutes. This is because theRonda "detects" whether and how long someone is in the room. Which means that whoever enters the room for a short period of time does not automatically trigger the convenient time delay that has been set and still does not have to go without light.

### Practical pulse function

The pulse function allows the presence detectors to be built into existing electrical installations with staircase light timer switches or KNX binary inputs without the need for expensive adjustments.

### More energy-efficient than ever

theRonda not only saves a great deal of energy in its function as a presence detector with its sophisticated functionalities. Thanks to the new switch-mode power supply, we've been able to reduce the standby power consumption to less than 0.1 W.

# PlanoSpot
## Flexible, flat, feature-rich
A new dimension in
presence-dependent
lighting control

PLUS X AWARD
2016 achieved for:
Innovation
High Quality
Functionality

# Bus-capable versions
## for hotels, restaurants, offices and entrance halls
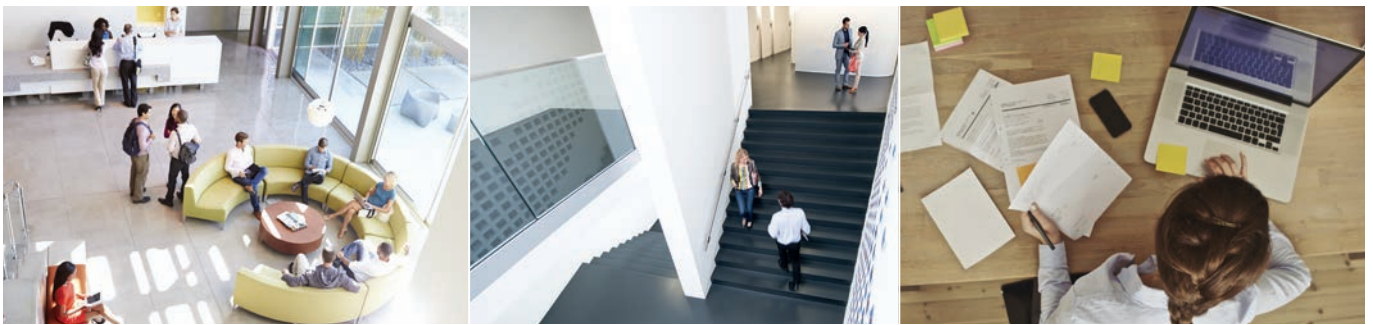
**Open for practically everything:** whether KNX, LON or DALI*, ThebenHTS offers a suitable version of the powerful presence detector for each of the three bus systems.

(* Please note the information on www.theben.de/en/planospot-dali)

Room situations in offices are changing faster today than ever before. The new PlanoSpot from ThebenHTS is the first presence detector on the market with a mechanically moving detection area.

If the presence detectors are detecting too much at once, you can conveniently reduce its detection area by remote control or via ETS parameters. This makes Plano Spot the ideal presence detector for spaces where a flexible floor plan is important. However, PlanoSpot can do even more: thanks to its three directed light measurements, it ensures pleasant constant lighting conditions. In any weather and in any season. And even if no people are detected. A function ensuring comfortable lighting conditions, especially in museums, restaurants, hotels or open-plan offices.

12°        12°

1 m                              1 m
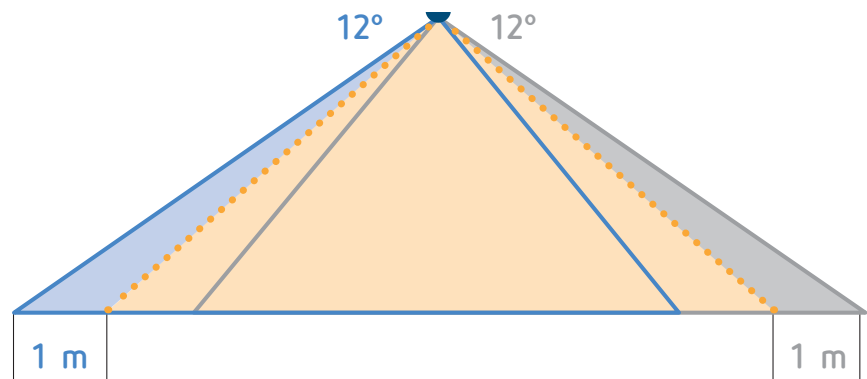
**Movable detection area:** the mirror optics of the square detection area can be mechanically tilted by up to 12° to the left and to the right. As a result, the detection area can be shifted by up to ± 1 m in order to better detect modified room layouts.

# More convenient and more energy-efficient
## The advantages when using PlanoSpot

Your room layout changed after the detector was installed? No problem! PlanoSpot's detection area can be reduced by up to two thirds via remote control. Alternatively, the ETS parameters can also be changed accordingly.

## Quick installation

PlanoSpot is quick to install: thanks to its spring clips, installation is quick in suspended ceilings. And if surface-mounting is required, then this is also possible using additionally available back boxes.

## Clever teach-in function

Lighting conditions change quickly — so it's good when you can simply save them when they are exactly how you want them. With the clever teach-in function, the current lux value can be permanently maintained. Without specialist knowledge. By the end user.

↑
**Original size**
Thanks to its sophisticated mirror optics, the PlanoSpot is just 3 mm tall and 76 mm in diameter. It couldn't be any less obtrusive.

## Square detection area

The square detection area is ideal for most rooms in which presence detectors are used. In this way, the individual detectors can be perfectly arranged. Without any gaps or unnecessary overlaps. Without blind spots. This makes planning easier, reduces the installation effort, saves energy and lowers costs — because usually fewer detectors are needed thanks to the square detection area.

## Self-learning time delay

The time delay changes automatically depending on how people behave inside the room. If the presence detector detects more movement, the time delay is shortened to just two minutes. If people hardly move or only rarely, the time delay is increased to up to 20 minutes. This saves energy, increases comfort and allows people to work in the most efficient way for them: active and lively or still and focused.

## Presence-independent lighting control

Thanks to its presence-independent constant light regulation, the PlanoSpot is ideal for applications where steady lighting conditions are important even if no one is there; such as in hospitals, museums or even certain sections in schools and public buildings.

## Illuminating short stays

In the event of a short stay, the light is only on for two minutes. This is because the presence detectors "detect" whether and how long someone is in the room. Which means that whoever enters the room for a short period of time does not automatically trigger the convenient time delay that has been set and still does not have to go without light.

## Safe thanks to orientation light

In buildings that you don't know very well, such as in hotel or hospital corridors, a dimmed orientation light makes you feel safe. If motion is detected, the lighting dims up to the configured set point value. After a defined time delay, the lighting is softly dimmed back down to the level of the orientation light.

## Three directed light measurements

PlanoSpot measures artificial light and daylight by means of three directed light measurements. The central light measurement detects the brightness directly below the detector, while the two other light measurements detect the brightness close to the window or in the interior. The result is optimum lighting conditions throughout the room.

## Calibration of brightness measurement

Daylight incidence, reflective surfaces or stark colour contrasts in the interior architecture affect the lux value. So it's good to know that there is a room correction factor. This is used to adjust the brightness measurement value of the corresponding lighting channel automatically to the conditions in the room.

## Constant lighting control

The constant light measurement continuously compares artificial light and daylight to one another. They determine the desired brightness value from these two light sources. No matter how changeable the weather: the lighting conditions inside the room remain pleasantly constant.

## Powerful KNX, DALI* and LON versions

PlanoSpot is available in different BUS versions, making it ideal for integration into building automation systems via KNX and LON or thanks to a DALI-Sensor* also for applications with a PLC.

# thePrema E
## More efficient, more discreet, more stylish
The premium presence detector with an exceptional design

# Energy efficiency
## at its most beautiful

thePrema stands out thanks to its top quality and reliability. And we give you our five-year guarantee.

(\* In accordance with our guarantee conditions; see www.theben.de/en/guarantee).

Its shape is similar to a forming drop of water: clear, round and perfectly shaped. It looks light and almost as if it were floating. Moreover, it's so flat that it's hardly noticeable when installed in the ceiling. No housing anymore. Instead, pure functionality. Yet, those who notice it are thrilled. Thrilled by its attractive design, its consistently impressive functions and its unbelievably low standby power consumption of less than 0.1 W.

Actually, it's hard to find another presence detector that boasts such a range of features. Everyone who gets to know its advantages in open-plan offices, corridors, classrooms and conference rooms, warehouses or sports halls will benefit from it. thePrema controls lighting, heating and air conditioning – depending on whether or not someone is in the room. In this way, everyone feels pleasantly comfortable – and only energy that is really needed is used. The presence detector is available in the versions Standard (thePrema S) and Performance (thePrema P).

**DALI**

**thePrema S, DALI version**
thePrema S is also available as a DALI version and can be perfectly integrated into building automation systems.

# More energy efficient
# in use

thePrema constantly contributes towards the optimum use of energy. As little as possible, as much as is necessary – so that people can live, think and work in optimum lighting conditions. And all this at at the most comfortable room temperature possible.
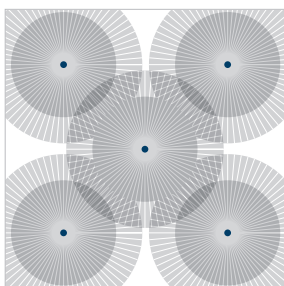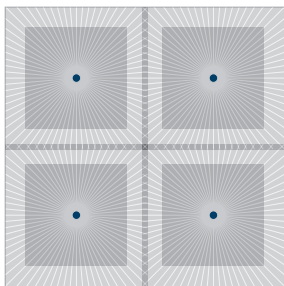
### Square detection area

thePrema has a round shape, but its detection area is square like the majority of rooms in which it is used. This means that individual detectors can be perfectly arranged. With no gaps or overlaps. Without blind spots. This makes planning easier, reduces the installation effort, saves energy and lowers costs – because usually fewer detectors are needed thanks to the square detection area.

### Safe staircase light function

With thePrema, nobody trips up. Not even on the stairs. The light can be switched on using the button, but it only goes off when there is no more movement on the stairs. This ensures that someone at the top of the stairs is not suddenly left in the dark because someone at the bottom has switched off the light.

### Illuminating short stays

In the event of a short stay, the light is only on for two minutes. This is because thePrema "detects" whether and how long someone is in the room. This means that whoever enters the room for a short period of time does not automatically trigger the time delay that has been set and still does not have to go without light.

### Sensitive room surveillance

Nothing gets past thePrema. This is a particular advantage when the presence detector is integrated into the building system technology of large office or administrative buildings. In this way, facility management always knows the rooms where people are still working.

### More energy-efficient than ever

thePrema E not only saves a great deal of energy in its function as a presence detector with its sophisticated functionalities. Thanks to the new switch-mode power supply, we've been able to reduce the standby power consumption to less than 0.1 W.

### Intelligent parallel switching

thePrema allows for more than just increasing the detection area via the master/slave switches. Lighting conditions in the detection areas of individual devices can be set independently, without depending on other devices and therefore individually using master/master parallel switches. This is an advantage if, for instance, in open-plan offices, different lighting conditions are to be balanced between areas close to windows and the room's interior.

### Automatic push button/switch recognition

thePrema automatically detects whether a push button or switch is connected. This makes installation easier for you and rules out any installation errors from the outset.

### Innovative light measurement

The integrated, calibrated light measurement provides a reliable and continuous measurement of the proportion of artificial and natural light. The new Spot and Wide function reacts perfectly to the different conditions in the room and ensures optimum lighting even in difficult lighting conditions.

### Constant light measurement

thePrema not only registers movements in the room but also measures the brightness. Constantly. This means that when there is sufficient daylight, it switches the artificial lights off, and when there is not enough it switches them back on. This also increases comfort levels – and reduces energy consumption.

### Self-learning time delay

thePrema thinks for itself: it shortens or lengthens the time delay depending on how people behave inside the room. If the presence detector registers more movement, the time delay is shortened to just two minutes. If people hardly or rarely move, the time delay is increased to up to 20 minutes. This saves energy, increases comfort and allows people to work in the most efficient way for them: active and lively or still and focused.

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thePrema KNX

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### High switching capacity

Its high-performance relay allows thePrema to handle switch loads of up to 10 amperes. As a result, several lamps can be connected at the same time and larger areas can be lit. This improves planning security, lowers costs and reduces installation times.

### Reliable teach-in function

Lighting conditions change quickly – so it's good when you can simply save them when they are exactly how you want them. With the reliable teach-in function, the current lux value can be permanently maintained. With the push of a button via remote control. Without specialist knowledge. By the end user. It couldn't be easier.

### Individual lighting scenarios

As bright as day or softly dimmed – you can choose between two lighting scenarios, which you can define however you like. For example, for in conference rooms where the light has to be dimmed for presentations. As well as for just those lighting conditions that are necessary for everyday situations. Settings can be made, saved and changed quickly and easily using the remote control.

### Flexible relay layout

The SendoPro remote control can also be used to define the light and presence detector operating mode. The light and presence channel relay has three different operating modes that enable variable solutions for various rooms. If it should be particularly quiet, only the presence relay is switched in "Mode III". The light channel then remains without function.

### Configurable sensitivity

How sensitively thePrema reacts to presence in the room is completely up to you. The PIR sensors can be conveniently set using the remote control – according to the individual requirements of the users.

### Simplest energy-saving setting

"eco" stands for optimum switching behaviour. "eco plus" for maximum energy savings. You decide what is best for you at the push of a button. Exactly how you like it. Exactly how you need it. There is no easier way to save energy.

### Easy-to-use remote control

With the remote control, settings can be easily made and changed from the ground. This is faster, shortens the installation time and lowers costs. And, what's more, it's safer.

### Powerful KNX version

The powerful KNX versions cover all of the requirements of a modern building control system. They are also easy to integrate into existing KNX installations and to parametrise via the ETS. The KNX versions feature constant lighting control, which continuously compares artificial light and daylight to one another. They determine the desired brightness value from these two light sources. No matter how changeable the weather: the lighting conditions inside the room remain pleasantly constant.

### Flexible solution

With up to 3 lighting channels and 2 presence channels, even complex systems can become child's play with the KNX version of thePrema KNX.

theLeda E
Brighter, illuminating, energy-saving
The new LED spotlights with and
without motion detectors

# Versatile lighting solutions
## for every outdoor use

**Rainproof:** all versions have protection class IP 55 and can be installed anywhere outdoors.

Nothing can be brighter. With the powerful theLeda E LED spotlights, entrances, driveways and parking spaces become safely, reliably and quickly illuminated. Quickly, not only because installation is simple thanks to the large terminal area and test function, but also because the spotlights reach 100 % of their brightness of 2310 lm with theLeda E30 immediately after being switched on.

At the same time, theLeda itself has a very low energy consumption, is extremely energy-efficient and is rated energy efficiency class A+ (theLeda E30 BK is rated energy efficiency class A). Good for the environment and good for your wallet. The versions with motion detectors reliably detect movements in their detection area of up to 12 metres. Thanks to the very flexible sensor heads, the detection area can be aligned perfectly.

Additional devices, such as theLeda E spotlights without motion detectors, can be connected via the additional relay output of theLeda E30 with motion detector. This makes increasing the area to be illuminated cost-effective.

**Versatile:** theLeda E is available in three different power ratings for spotlights – 10 W, 20 W and 30 W – as well as in two versions: with and without motion detector. All LED spotlights are available in white and black.

# A powerful light family
## for courtyard entrances and parking spaces

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**Common functions**

### Large terminal area

Time is money. With theLuxa you save both. theLeda spotlights with motion detectors have a large terminal area. This makes assembly quick and easy.

### Swivelling sensor head

With its horizontally and vertically swivelling sensor head, theLeda only detects movement in those areas where it really is supposed to. theLeda comes with stickers for partially limiting the detection area. This means that unwanted activation of the detector due to movements next door or on the pavement can be avoided.

### IP 55 Simple and rainproof

theLeda boasts protection class IP 55. That is not only safe, but also practical, as it allows theLeda to be installed anywhere outdoors, regardless of how protected from the weather the installation location is.

### Manual switch on

The LED spotlights can also be switched on manually. This is practical, for example, if you hear a noise that may have been made outside the detection area. And this gives you a reassuring feeling of security.

**Easily accessible potentiometers**

Adjustment and operation is easy using the adjusters under the sensor head – no need for tools.

**Practical test function**

With theLeda, you can avoid detection errors from the outset: using the practical test function, the detection area can be established, set and optimised immediately after installation. Even in daylight and sunshine – when conventional motion detectors do not normally react.

**theLeda E30**

**Extendable via switching output**

Additional devices, such as further LED spotlights without detectors, can be connected via the additional relay output of the 30 W spotlight with motion detector.

Universal dimmer DIMAX plus
More atmospheric, more intuitive, more illuminating
Now program dimmers easily and intuitively via the app

# Smooth, seamless,
# flicker free LED dimming
## Using a simple, neat retractive switch programmed by smart phone

**Dim LEDs harmonically:** LED lights have their own rules. So it's good when you have a dimmer that can react to different dimming responses. Dimmers like the DIMAX. It provides LEDs with optimised settings and dims these lamps harmonically and reliably. However, it must be connected to a dimmable LED lamp.

A cosy night in with friends. When you're having a nice meal in a relaxed atmosphere, one thing is vital: the right light. It should be softly dimmed and not too harsh. With the new flush-mounted dimmer from Theben, you can create lighting scenarios that enhance this relaxing ambiance in the blink of an eye.

One new feature is being able to program the dimmer DIMAX 544 plus via the app: configuring lighting scenarios, brightness values and other settings, such as the staircase light function or 2-button operation, from your smart phone is simple, intuitive and easy to understand. The program is easy to load onto the dimmer via NFC. This also functions for dimmers that have already been installed: simply put your smart phone in the place on the wall that the dimmer is installed behind. No need to cut any wall paper, the NFC protocol range is sufficient. Of course, DIMAX can also be programmed using the classic screwdriver method. Exactly how you want it.
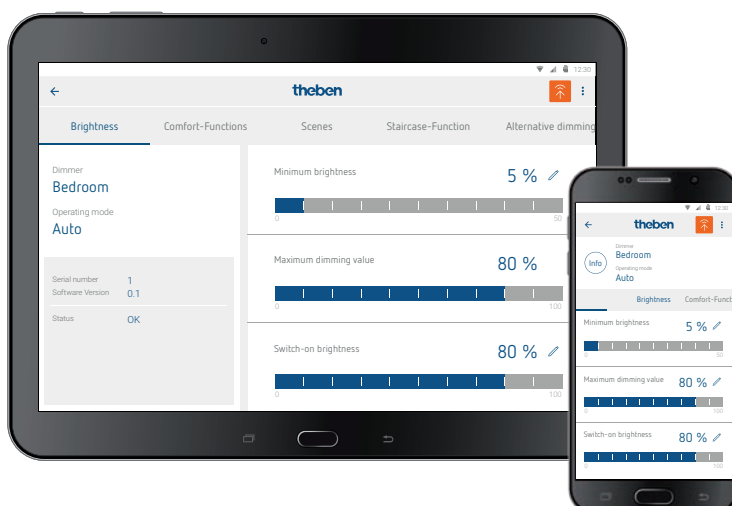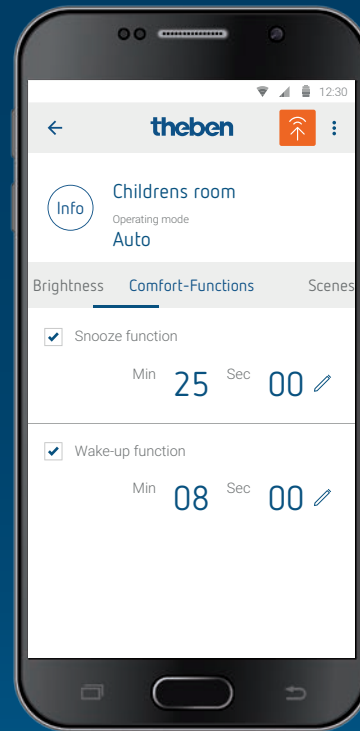
**DIMAX app for Android:**
The free "Theben DIMAX" app is currently available for mobile Android devices in the Google PlayStore. Transmission via NFC.

# More comfortable, more clearly arranged, smarter
## Programm lighting scenarios and more via the app
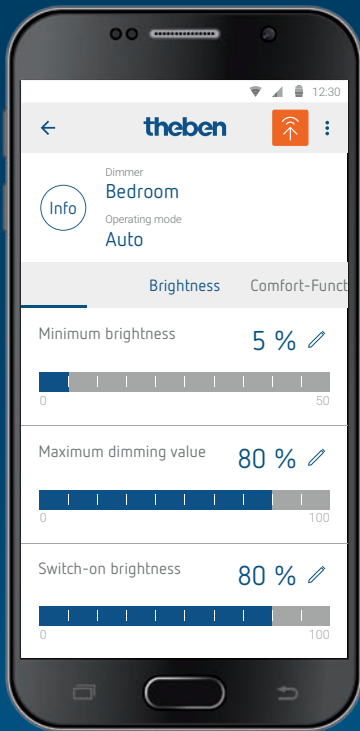
**Switch-on brightness**
The switch-on bright-ness is easy to set individually via the app or directly using the button.

**Comfort function**
The dimming time can be set for automatic and gentle up-dim-ming and down-dim-ming with the separate wake-up and snooze functions.

## Common functions

**Retrofitting made easy**

DIMAX is perfect for retrofitting. When connections have already been stored, DIMAX can easily be installed in flush mounted back boxes or in the ceiling void (using a suitable enclosure). And that's it, done.

**Settings via an easily accessible potentiometer**

Apps aren't for everyone. That's why with DIMAX you can choo-se between making settings the conventional way using a screwdriver on the potentiome-ter or via the app. Exactly how you're used to it. And exactly how you want it.

**Optimised for LEDs**

DIMAX plus offers various settings for ideally reacting to the various dimming responses of LED lamps. Whether it's with individually adjustable minimum brightness or a 2nd setting for LEDs (with leading edge). What's more, you can also select additional alternative dimming curves for LEDs via the app. This allows you to dim your LED lamps in a harmonic, continuous and future-proof manner.

**Go to sleep gently, wake up gently**

Healthy sleep is important: and it's even better when you fall asleep gently in the evening and wake up gently in the morning. The "Wake-up and snooze function" of the DIMAX plus supports you in exactly that: double-clicking the button gently dims the light in the evening and guides you into the land of nod. In the morning you a woken up by a light that gently gets brighter.
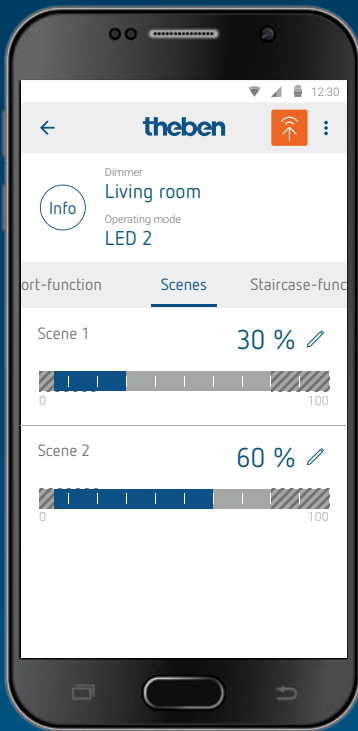
**Lighting scenarios**
Up to 2 additional buttons for calling up individually configurable lighting scenarios can be connected with the optionally available diode modules.
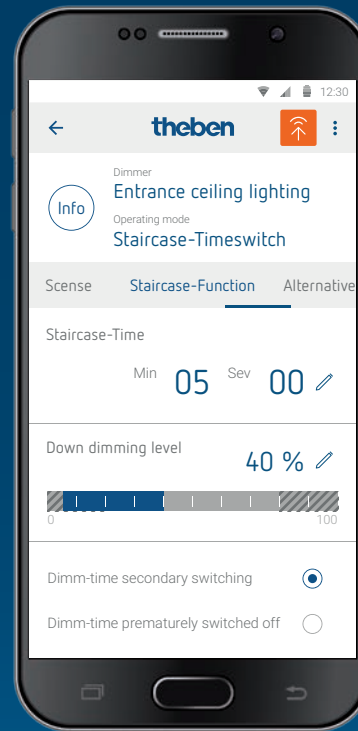
**Staircase light**
The special "Staircase light" function turns the dimmer into a staircase time switch that dims down to give you a switch-off pre-warning.

## DIMAX 544 plus

### Additional lighting scenarios

Optional diode modules can store up to two lighting scenarios. This gives you the choice between two different lighting scenarios. You can individually determine the brightness of the lighting scenarios. Exactly how you want it at the time.

### Programming conveniently

Programming the DIMAX 544 plus flush-mounted dimmers is easy too: the dimmers can be configured conveniently from your desk in the office via the "Theben DIMAX" app – all without connecting to a power supply. They are only installed at the installation site later.

### Near field communication (NFC)

The DIMAX 544 can also be programmed via the app. Transmission from your mobile Android device to the DIMAX is via NFC. The range is sufficient for transmission to dimmers that have been installed directly behind switch plates. The short range also provides additional security against tampering and manipulation.

### Safe staircase light function

DIMAX from Theben keeps you out of the dark. Before the light on the stairs goes out, it dims down over a defined period. This gives you the chance to switch the light back on again. You can configure the dim-down level and the time delay.
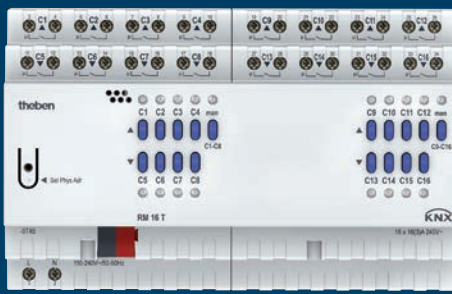
Ready, steady, ideal
KNX FIX actuators for functional buildings

# Made for larger installations
## KNX actuators for functional buildings



Those who like defined functionality in a compact way will find the FIX1 and FIX2 compact actuators to be the perfect alternative to the MIX2 actuators. Moreover, an affordable one. For example, the RM 16 T KNX switch/blind actuator with 16 relays can control mixed lights and blinds and is perfectly suited for the use in property construction: such as office buildings, public buildings, educational facilities or hotels. Wherever lighting and sun protection control are required in one room.

| Switch actuators | Blind actuators | Dimming actuators | Heating actuators | Binary inputs |
|---|---|---|---|---|
| FIX1 RM 4 U KNX | FIX1 JM 4 T KNX | FIX1 DM 2 T KNX | FIX1 HM 6 T KNX | FIX1 BM 6 T KNX |
| FIX1 RM 4 I KNX | FIX2 JM 8 T KNX | FIX2 DM 4 T KNX | FIX2 HM 12 T KNX | FIX2 BM 12 T KNX |
| FIX2 RM 8 I KNX | FIX1 JM 4 T 24V KNX | FIX1 DM 4-2 T KNX | | |
| FIX1 RM 8 S KNX | FIX2 JM 8 T 24V KNX | FIX2 DM 8-2 T KNX | | |
| FIX2 RM 16 S KNX | | | | |
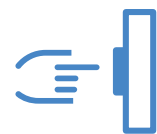
### Switch/blind actuators

FIX1 RM 8 T KNX
FIX2 RM 16 T KNX

# Overview of the FIX1 and FIX2 range
## KNX actuators
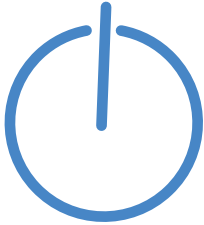
### Switch actuators
#### switching that's on time

On/off with and without delay or staircase light with forewarning –
the C-load switch actuators, for instance, offer you new freedom on up
to 8 channels. They feature current recognition and are designed for
higher lamp loads.
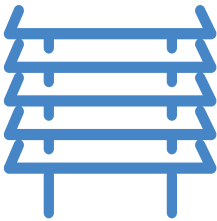
### Blind actuators
#### offer ideal glare protection

Blind actuators optimally incline the blades of your sun protection.
Any time of the day. Wherever the sun is in the sky. The blind actuators
control the drives of blinds, roller blinds, sun and vision protection
devices, skylights and ventilation flaps. Passive houses with interior
blinds benefit from the 24 V versions of the new blind actuators. With
the switch/blind actuators you can switch and control as you like:
8 blind or 16 switching channels – or mixture of both. This gives you
more freedom in how you use the channels. Also because you can
assign them as you please afterwards.

### Dimming actuators
#### dim LEDs in harmony

No flickering, an attractive, evenly rising brightness level with all
currently available LED lamps – Theben's universal dimming actuators
have already proven themselves on the market. And they have been
enthusiastically received without exception. They are considered to be
one of the best dimming actuators of all. Updatable for future lamps.
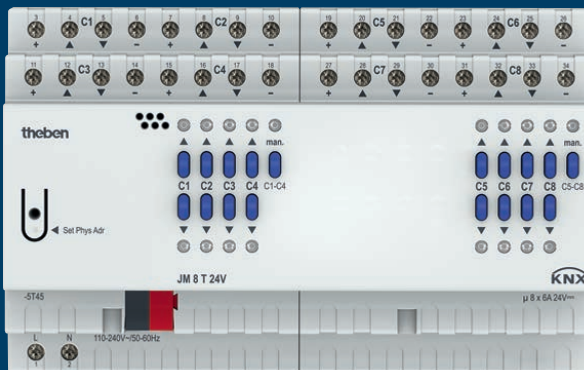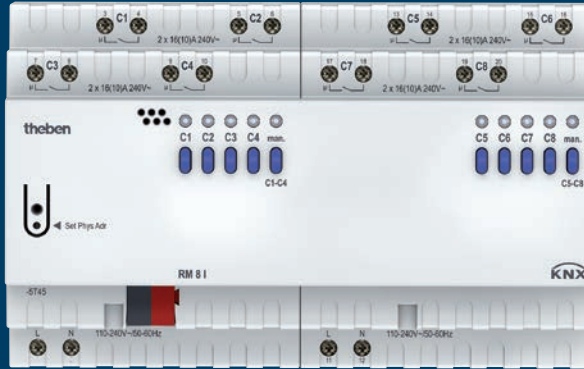
# Overview of the FIX1 and FIX2 range
## KNX actuators

## Heating actuators
### heat comfortably and energy-efficiently

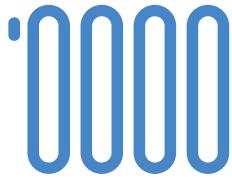Theben's heating actuators allow you to record the temperature in individual rooms using affordable temperature sensors. The temperature is controlled in the actuator itself and the set point is specified centrally via theServa KNX visualisation, for example.
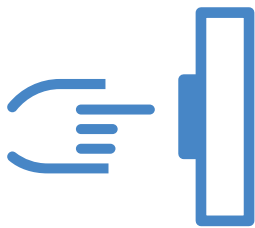
## Binary inputs
### connecting conventionally and by KNX

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 of them. That means more flexibility and greater investment security. Also because in case of maintenance or service, each channel can be tested via manual operation.
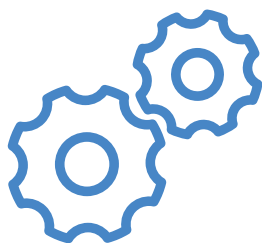
## System devices
### keep the network running

The IP Router and the IP Interface connect the KNX bus with the significantly quicker Ethernet network. KNX telegrams can be sent to or received from other devices via this network. Both enable firmware updates. The IP Router indicates power failures in the KNX bus.

The Theben IP Router has 5 tunnelling servers, such as for KNX visua lisations, a filter table for 0 to 31 group address in the main group as well as 1 to 65535 in a free group address structure, and, alternatively to Multicast, the router allows up to 10 routers to communicate directly via Unicast.
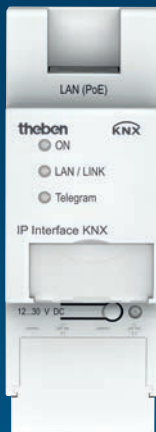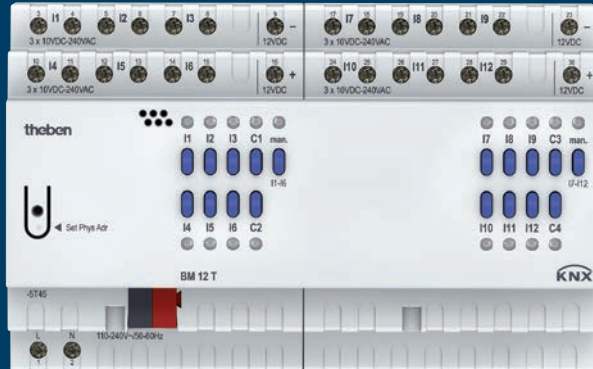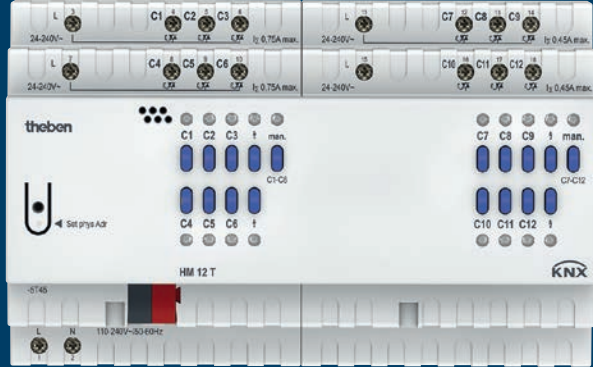
# Continuous, flicker-free, harmonic
## KNX dimming actuators for small LED wattages

# Dimming LEDs precisely
## Today and in the future

Dimmable lamps, such as LEDs, halogen and energy-saving lamps, can be dimmed continuously with the new KNX universal dimmer actuators from Theben's FIX1 and FIX2 range. In view of the increasing number of LED lamps with small wattages, multiple channels provide greater design freedom.

### Optimised for small wattages

The times of high wattages are over. Today, the art is in dimming LEDs with small wattages. Theben is keeping abreast of this trend and now offers a 4 x 200 W and 8 x 200 W dimming actuator. This allows you to switch multiple LEDS with just one actuator.

### Flexible dimming curves

Various dimming curves are stored in the KNX programming software ETS, and these correct the dimming response appropriately depending on the lamp used, thus ensuring stepless dimming.

### Updatable: reloading dimming curves

New dimming curves – e.g. for future lamps – can be imported via ETS, thus ensuring your investments are well-protected.

### Fast start-up

With the 200 W actuators, quick function tests make start-up possible via 4 buttons (25 %, 50 %, 75 % and 100 %).

# More precise, more tolerant, integratable
## 0–10 V fan coil actuator for apartments

# Individual temperature selection
## through proportional valve control

The new FCA 2 KNX fan coil actuator from Theben gives you all the conveniences you could hope for from a heating control system. Thanks to proportionally controllable control valves, you can increase or decrease the temperature precisely to the degree. Ideal for hotel rooms, office buildings and apartment complexes.

### Precisely to the degree: proportional control

The temperature can be regulated precisely using proportional controllable control valves and fans (0–10 V). Precisely to the degree. The fans can also be controlled in 3-steps via the switch outputs.

### Inputs for every application

The FCA 2 KNX fan coil actuator has 2 inputs for condensation monitoring and for connecting an external temperature sensor or window contact.

### Tolerant in temperature fluctuations

Thanks to the new varying-voltage power supply, the fan coil actuators is universally usable: for voltages of 100–240 V and of 50–60 Hz.

### Flexible use

Small split units can also be controlled, due to the integrated, adjustable restart delay.

### Suitable for 2-pipe or 4-pipe systems

The FCA 2 KNX supports both 2-pipe and 4-pipe systems. The 2-pipe system allows for demand-based heating or cooling. The 4-pipe system consists of a separate flow and return for the heating and cooling system. As a result, with the FCA 2 KNX from Theben, you have every possibility.

# Everything at a glance
## Overview

### theLeda E LED spotlights

| LED spotlight output | Motion detector included | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|
| 10 W | Yes | White | theLeda E10 WH | 1020911 | Available | - |
| | | Black | theLeda E10 BK | 1020912 | Available | - |
| | No | White | theLeda E10L WH | 1020711 | Available | - |
| | | Black | theLeda E10L BK | 1020712 | Available | - |
| 20 W | Yes | White | theLeda E20 WH | 1020913 | Available | - |
| | | Black | theLeda E20 BK | 1020914 | Available | - |
| | No | White | theLeda E20L WH | 1020713 | Available | - |
| | | Black | theLeda E20L BK | 1020714 | Available | - |
| 30 W | Yes | White | theLeda E30 WH | 1020915 | Available | - |
| | | Black | theLeda E30 BK | 1020916 | Available | - |
| | No | White | theLeda E30L WH | 1020715 | Available | - |
| | | Black | theLeda E30L BK | 1020716 | Available | - |

### thePiccola S and P motion/presence detectors

| Detection area | Colour | Operation | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|
| Round Ø 8 m | White | Motion detector | thePiccola S360-100 DE WH | 1060200 | Available | - |
| | | Presence detector | thePiccola P360-100 DE WH | 2090200 | April 2016 | - |

### theRonda S presence detectors

| Detection area | Installation type | Channels | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|---|
| Ø 8 m | Surface-mounted | Light | White | theRonda S360-100 AP WH | 2080550 | May 2016 | - |
| | | | Grey | theRonda S360-100 AP GR | 2080551 | May 2016 | - |
| | | Light \| Presence | White | theRonda S360-101 AP WH | 2080555 | May 2016 | - |
| | | | Grey | theRonda S360-101 AP GR | 2080556 | May 2016 | - |
| | Ceiling installation | Light | White | theRonda S360-100 DE WH | 2080560 | May 2016 | - |
| | | | Grey | theRonda S360-100 DE GR | 2080561 | May 2016 | - |
| | | Light \| Presence | White | theRonda S360-101 DE WH | 2080565 | May 2016 | - |
| | | | Grey | theRonda S360-101 DE GR | 2080566 | May 2016 | - |

### theRonda P master and theRonda P slave presence detectors

| Detection area | Operation | Channels | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|---|
| Ø 24 m | Master | Light | White | theRonda P360-100 M UP WH | 2080020 | May 2016 | 2080000 |
| | | | Grey | theRonda P360-100 M UP GR | 2080021 | May 2016 | 2080001 |
| | | Light \| Presence | White | theRonda P360-101 M UP WH | 2080025 | May 2016 | 2080005 |
| | | | Grey | theRonda P360-101 M UP GR | 2080026 | May 2016 | 2080006 |
| | Slave | - | White | theRonda P360 Slave UP WH | 2080030 | May 2016 | - |
| | | | Grey | theRonda P360 Slave UP GR | 2080031 | May 2016 | - |

## PlanoSpot presence detectors

| Detection area | Bus system | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|
| 8 x 8 m | KNX | White | PlanoSpot 360 KNX DE WH | 2039100 | Available | - |
| | | Black | PlanoSpot 360 KNX DE BK | 2039101 | Available | - |
| | | Silver | PlanoSpot 360 KNX DE SR | 2039102 | Available | - |
| | LON | White | PlanoSpot 360 PSLON DE WH | 2039200 | Available | - |
| | | Black | PlanoSpot 360 PSLON DE BK | 2039201 | Available | - |
| | | Silver | PlanoSpot 360 PSLON DE SR | 2039202 | Available | - |
| | DALI-Sensor* | White | PlanoSpot 360 DALI DE WH | 2030110 | Upon request | - |
| | | Black | PlanoSpot 360 DALI DE BK | 2030111 | Upon request | - |
| | | Silver | PlanoSpot 360 DALI DE SR | 2030112 | Upon request | - |

* Please note the information on www.theben.de/en/planospot-dali

## Motion detectors with pre-assembled connectors

| Detection area | Connector type | Type | Item no. | Available from | Basic module item no. |
|---|---|---|---|---|---|
| Round Ø 8 m | Wieland GST | theMova S360-100 WH GST | 1030570 | Available | 1030560 |
| | WAGO WINSTA Midi | theMova S360-100 WH WINSTA | 1030575 | Available | 1030560 |
| Round Ø 24 m | Wieland GST | theMova P360-100 WH GST | 1030610 | Available | 1030600 |
| | WAGO WINSTA Midi | theMova P360-100 WH WINSTA | 1030615 | Available | 1030600 |

## Presence detectors with pre-assembled connectors

| Detection area | Connector type | Type | Item no. | Available from | Basic module item no. |
|---|---|---|---|---|---|
| Round Ø 8 m | Wieland GST | theRonda S360-100 WH GST | 2080570 | June 2016 | 2080560 |
| | WAGO WINSTA Midi | theRonda S360-100 WH WINSTA | 2080575 | June 2016 | 2080560 |
| Round Ø 24 m | Wieland GST | theRonda P360-100 WH GST | 2080010 | Available | 2080000 |
| | WAGO WINSTA Midi | theRonda P360-100 UP WH WINSTA | 2080015 | Available | 2080000 |
| 30 x 5 m | Wieland GST | compact passage GST | 2010100 | Available | 2010090 |
| | WAGO WINSTA Midi | compact passage WINSTA | 2010105 | Available | 2010090 |

## thePrema S E and thePrema P E presence detectors

| Detection area | Operation | Channels | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|---|
| 8 x 8 m | Master | Light | White | thePrema S360-100 E UP WH | 2070600 | Available | 2070500 |
| | | | Grey | thePrema S360-100 E UP GR | 2070601 | Available | 2070501 |
| | | Light \| Presence | White | thePrema S360-101 E UP WH | 2070605 | Available | 2070505 |
| | | | Grey | thePrema S360-101 E UP GR | 2070606 | Available | 2070506 |
| | Slave | - | White | thePrema S360 Slave E UP WH | 2070630 | Available | 2070530 |
| | | | Grey | thePrema S360 Slave E UP GR | 2070631 | Available | 2070531 |
| 10 x 10 m | Master | Light \| Presence | White | thePrema P360-101 E UP WH | 2070105 | Available | 2070005 |
| | | | Grey | thePrema P360-101 E UP GR | 2070106 | Available | 2070006 |
| | Slave | - | White | thePrema P360 Slave E UP WH | 2070130 | Available | 2070030 |
| | | | Grey | thePrema P360 Slave E UP GR | 2070131 | Available | 2070031 |

## thePrema S DALI presence detectors

| Detection range | Channels | Colour | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|
| 8 x 8 m | Light | White | thePrema S360 DALI UP WH | 2070525 | May 2016 | 2010010 |
| | | Grey | thePrema S360 DALI UP GR | 2070526 | May 2016 | 2010011 / 2010012 |

## DIMAX flush-mounted dimmers

| Programming by app | Transmission via NFC | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|
| – | – | DIMAX 542 plus | 5420001 | April 2016 | – |
| Yes | Yes | DIMAX 544 plus | 5440001 | April 2016 | – |

## KNX actuators and binary inputs from the FIX ranges

| Operation | Channels | Range | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|---|---|
| Switch actuators | 4 | FIX1 | RM 4 U KNX | 4940223 | Available | – |
| | 8 | FIX1 | RM 8 S KNX | 4940220 | Available | – |
| | 16 | FIX2 | RM 16 S KNX | 4940225 | Available | – |
| C-load switch actuators | 4 | FIX1 | RM 4 I KNX | 4940210 | Available | – |
| | 8 | FIX2 | RM 8 I KNX | 4940215 | Available | – |
| Switch / blinds actuators | 8 / 4 | FIX1 | RM 8 T KNX | 4940200 | Available | – |
| | 16 / 8 | FIX2 | RM 16 T KNX | 4940205 | Available | – |
| Blind actuators | 4 | FIX1 | JM 4 T KNX | 4940250 | Available | – |
| | 8 | FIX2 | JM 8 T KNX | 4940255 | Available | – |
| | 4 | FIX1 | JM 4 T 24V KNX | 4940260 | Available | – |
| | 8 | FIX2 | JM 8 T 24V KNX | 4940265 | Available | – |
| 400 W universal dimmer actuators | 2 | FIX1 | DM 2 T KNX | 4940270 | Available | – |
| | 4 | FIX2 | DM 4 T KNX | 4940275 | Available | – |
| 200 W universal dimmer actuators | 4 | FIX1 | DM 4-2 T KNX | 4940280 | May 2016 | – |
| | 8 | FIX2 | DM 8-2 T KNX | 4940285 | May 2016 | – |
| Heating actuators | 6 | FIX1 | HM 6 T KNX | 4940240 | Available | – |
| | 12 | FIX2 | HM 12 T KNX | 4940245 | Available | – |
| Binary inputs | 6 | FIX1 | BM 6 T KNX | 4940230 | Available | – |
| | 12 | FIX2 | BM 12 T KNX | 4940235 | Available | – |

## FCA 2 KNX fan coil actuator

| Operation | Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|---|
| Fan coil actuator | FCA 2 KNX | 4920210 | April 2016 | – |

## IP Interface KNX and IP Router KNX

| Type | Item no. | Available from | Replaces item/ discontinued model |
|---|---|---|---|
| IP Interface KNX | 9070981 | Available | – |
| IP Router KNX | 9070980 | Available | – |

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