Presence detector
PresenceLight 180 KNX

Product Features

♦ Passive infrared presence detector (PIR) for wall mounting
♦ 180° detection range (up to 100 m², 8 m radius)
♦ Mixed light measurement
♦ Suitable for fluorescent lamps, compact fluorescent lamps, halogen, incandescent lamps and LEDs
♦ Degree of protection IP 40 and IP 54 for installation in damp zones
♦ Adjustable sensitivity
♦ Channels light to control of one or two lighting groups
  • Switching or constant light control with stand-by function
  • Fully or semi-automatic function mode
  • Short presence; Reduced switch-off delay time in case of a short presence
♦ Channel presence with switch-off delay and switch-on delay time and send values
♦ Channel monitoring with manipulation protection
♦ Channel brightness (Lux)
♦ Selected parameters can be configured remotely using the SendoPro remote control. Parameter settings are made via ETS
♦ Set brightness level via bus object
♦ Scene functionality (8-bit scenes)
♦ Parallel circuit operation of several presence detectors (master-slave, master-master) without logic components
♦ Management remote control SendoPro 868-A (optional)
♦ User remote control theSenda S (optional)

Switching or control of two lighting groups

The PresenceLight 180 KNX switches or controls one or two lighting groups.

Switching: In switching mode (ON/OFF) it controls switch actuators. An ON telegram is sent if it is dark **and** someone is present. An OFF telegram is sent if it is light **or** no one is present. With deactivated light measurement, the lighting groups will be controlled depending on presence.

Constant light control: In constant light control dimming actuators are controlled. If it is dark and persons are present, the artificial light is controlled at a constant brightness level depending on the daylight.

The second lighting group is switched or controlled with an adjustable brightness difference.

Brightness Measurement

The PresenceLight 180 KNX incorporates a mixed light measurement system which is sensitive to artificial light.

Switching: with indirect lighting, the artificial light at the detector's mounting location must not exceed 2000 Lux (brightness threshold >200 Lux). If the brightness set point value is set to „Measurement off", the light channels only switch on depending of presence (the brightness measurement is switched off).

Constant light control: The detector must be placed in a position where it only detects the artificial light which it controls itself. Artificial light controlled by other detectors or manually operated working lights influence the detector's brightness measurement. The point where the detector is installed becomes the reference for the lighting level in the room. Artificial light should not be allowed to fall directly on the detector.
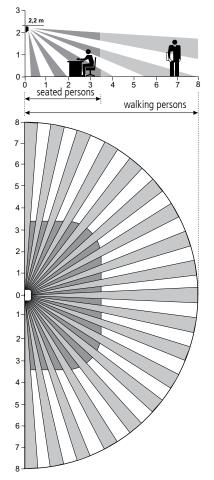

Application description

For a detailed description of the functions, see the "KNX handbook - Application description PresenceLight 180/360 KNX"

Detection Range (Mounting height = 2,2 m)

Location

Detection Range

The recommended mounting height is 2,2 m.

Mounting the device in the height of the switches is not recommended (possible obstacles in the detection range and vandalism).

Seated persons are reliably detected within a range of 7 m x 3,5 m. Walking persons are detected reliably in a range with radius of 8m.

Due to the horizontal orientation of the PresenceLight 180 KNX, the detection range is very large. The sensitivity decreases by increasing distance.

M.height	seated persons		moving persons	
2,2 m	25 m²	7,0 m x 3,5 m	100 m²	ca. 8 m radius

Accessories

Management remote control SendoPro 868-A

The SendoPro 868-A management remote control is available for start-up, configuration and service.

theSenda S user remote control

theSenda S user remote control is available for customer. This makes it possible to switch and dim one or two lighting groups of different detectors individually. Two programmable scenes are available to the user. Neighbouring light groups can be separated from each other. Optionally you can control blind operation or other suitable devices.

Surface Frame

Suitable frames (IP 40 + IP 54) for surface mounting are also available.

Technical Specifications

Presence detector	PresenceLight 180x-KNX
Detection range horizontal	180°
Recommended mounting height	ca. 1,6 m–2,2 m
Maximum range	< 10 m radius
All settings can be set remotely	see KNX handbook PresenceLight 180x-KNX / PresenceLight 360x-KNX
Light measurement	Mixed light
Brightness range Light measurement deactivated	approx. 5–2000 Lux Measurement off (the light channels only switch on if there is presence)
"Light" switch-off delay time	30 sec - 60 min.
"Presence" switch-off delay time	10 sec - 120 min.
"Presence" switch-on delay	10 sec - 30min / inaktiv
Terminals	KNX
Power consumption	13 mA
Mounting	
Mounting depth Mounting diameter Mounting plate (integrated)	40 mm 50 mm 70 x 70 mm
Size of concealed housing	Size 1, (NIS, PMI)
Ambient temperature	-10° – +50° C
Protection rating	IP 20 (IP 40 when mounted)
Degree of protection through installation with gasket set	IP 54

Theben HTS AG

Item numbers		
PresenceLight 180A-KNX WH, IP 40, white	IP 40	200 9 051
PresenceLight 180A-KNX BK, IP 40, black	IP 40	200 9 821
PresenceLight 180A-KNX SR, IP 40, silver	IP 40	200 9 822
PresenceLight 180B-KNX WH, IP 54, white	IP 54	200 9 050
PresenceLight 180B-KNX BK, IP 54, black	IP 54	200 9 815
PresenceLight 180B-KNX SR, IP 54, silver	IP 54	200 9 816
Surface frame PresenceLight 40WH, IP 40, white		907 0 606
Surface frame PresenceLight 40BK, IP 40, black		907 0 607
Surface frame PresenceLight 40SR, IP 40, silver		907 0 608
Surface frame PresenceLight, incl. gasket set IP 54, white		907 0 513
Surface frame PresenceLight BK, incl. gasket set IP 54, black		907 0 634
Surface frame PresenceLight SR, incl. gasket set IP 54, silver		907 0 635
Gasket set IP 54 for flush-mounting	spare part	907 0 570
Gasket set IP 54 for surface frame	spare part	907 0 520
Management remote control SendoPro 868-A		907 0 675
User remote control theSenda S		907 0 911

Declaration of CE conformity

This device complies with the EMC Directive 2014/30/EU.

CE