Presence Detector
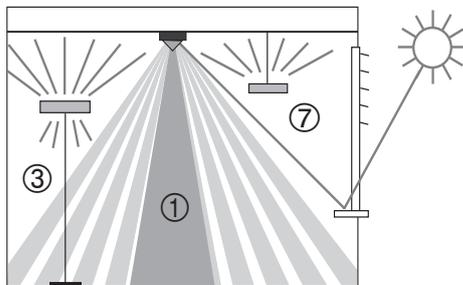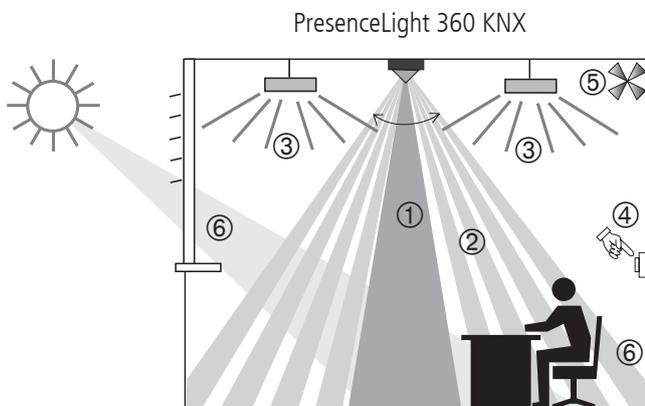# PresenceLight 360 KNX

PresenceLight 360 KNX

① Mixed light measurement
② Presence detection
③ Artificial light
④ Push-button/switch for manual lighting control
⑤ HVAC / monitoring
⑥ Available daylight
⑦ Indirect lighting

ⓘ Application description

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

Product Features

♦ Passive infrared presence detector for ceiling mounting
♦ Square 360° detection range (until 64m², 8 x 8 m)
♦ Mixed light measurement
♦ Suitable for fluorescent lamps, compact fluorescent lamps, halogen, incandescent lamps and LEDs
♦ Degree of protection IP40 and IP54 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 SendoClic (optional)

Switching or control of two lighting groups

The PresenceLight 360 KNX switches or controls one or two lighting groups. 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.

In controlled operation (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.

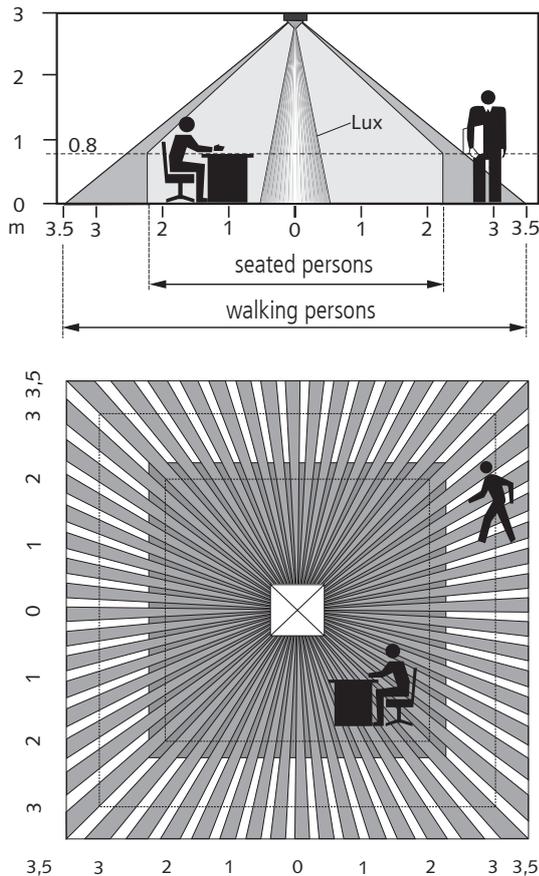The second lighting group is switched or controlled with an adjustable brightness difference.

Brightness Measurement

The PresenceLight 360 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 On, channel A light only switches on dependent on 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.

Detection Range (Mounting Height = 3,0 m)

Technical Specifications

Presence detector	PresenceLight 360x-KNX
Detection range horizontal	360°
vertical	120°
Recommended mounting height	2.0 m - 3 m
Maximum range	6 x 6 m (Mh 2.5 m) 8 x 8 m (Mh 3.5 m)
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
"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 40
Degree of protection through installation with gasket set	IP 54

Location

Detection Range

The square detection ranges ensure a safe and simple planning. Please note that the detection range for seated persons and walking persons differ in their extension. The recommended mounting height is 2,0 m - 3,0 m. The sensitivity of the detector decreases with increasing mounting height. From a mounting height of 3 m walking movements are required for detection, and the detection ranges of multiple detectors should overlap in their fringe zones.

M.height	seated persons		moving persons	
2.0 m	9 m²	3.0m x 3.0m	20 m²	4.5m x 4.5m
2.5 m	16 m²	4.0m x 4.0m	36 m²	6.0m x 6.0m
3.0 m	20 m²	4.5m x 4.5m	49 m²	7.0m x 7.0m
3.5 m	--		64 m²	8.0m x 8.0m

Seated Persons:

The values given refer to the restricted detection range for movements taking place at table height, i.e. approx. 0.80 m above the floor. From a mounting height of > 3 m, the sensitivity of the detector is limited, and more distinct movements are required for detection.

Walking Persons

For walking persons, the entire detection range is valid with a small tolerance in the fringe zone (+/- 0.5 m).

Accessories

Management remote control SendoPro 868-A

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

SendoClic user remote control

SendoClic 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 (IP40 + IP54) for surface mounting are also available.

Item numbers	
PresenceLight 360A-KNX WH, IP40, white	200 9 001
PresenceLight 360A-KNX BK, IP40, black	200 9 818
PresenceLight 360A-KNX SR, IP40, silver	200 9 819
PresenceLight 360B-KNX WH, IP54, white	200 9 000
PresenceLight 360B-KNX BK, IP54, black	200 9 812
PresenceLight 360B-KNX SR, IP54, silver	200 9 813
Surface frame PresenceLight 40WH, IP40, white	907 0 606
Surface frame PresenceLight 40BK, IP40, black	907 0 607
Surface frame PresenceLight 40SR, IP40, silver	907 0 608
Surface frame PresenceLight, incl. gasket set IP54, white	907 0 513
Surface frame PresenceLight BK, incl. gasket set IP54, black	907 0 634
Surface frame PresenceLight SR, incl. gasket set IP54, 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 SendoClic	907 0 690

Declaration of CE conformity

This device complies with the EMC Directive 2004/108/EC.

CE

Subject to change without notice. Errors and omissions excepted.