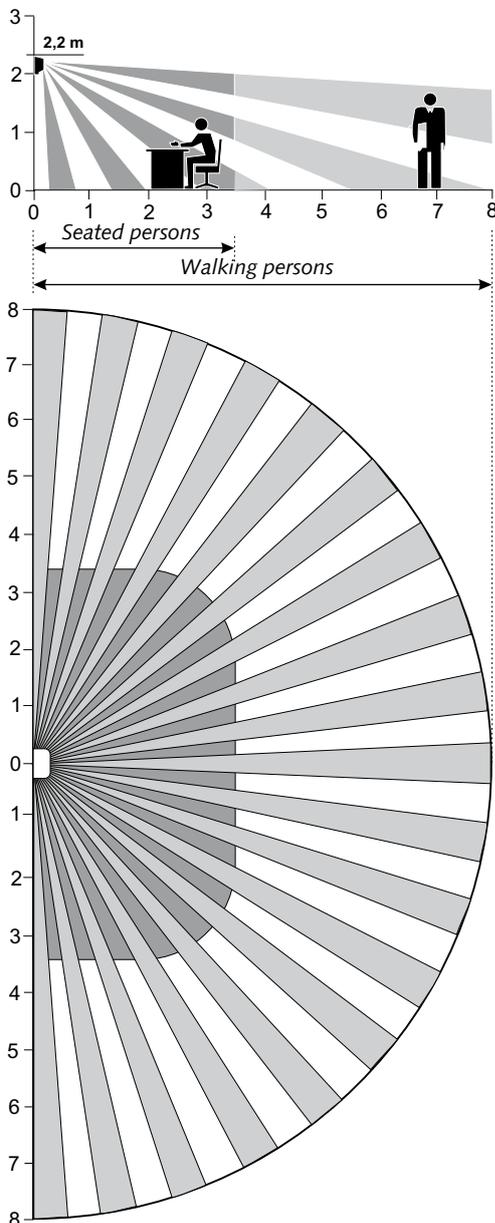


Presence Detector PresenceLight 180



Detection Range (Mounting Height 2,2m)



Detection range side-view (above) and top-view (below). The size of the detection range is different for seated and for walking persons.

PresenceLight 180 Product Features

- ◆ Passive infrared presence detector for wall mounting
- ◆ 180° detection range
- ◆ Automatic lighting control
- ◆ Mixed light measurement
- ◆ Degree of protection IP54 for installation in damp zones
- ◆ Switched output for light (relay, 230V)
- ◆ Lighting control with brightness threshold value and self-learning switch off delay time
- ◆ Pulse function for staircase lighting timer
- ◆ Service remote control QuickSet plus (option)
- ◆ User remote control clic (option)

Switched Output for «Light»

The switching behavior is controlled by presence and brightness. The contact closes in case of darkness **and** presence, and opens in case of brightness **or** absence.

The minimum switch off delay time (10s - 20min) and the desired brightness switching threshold (10 - 1500Lux) are adjustable. The switch off delay time automatically adapts to the occupant's behavior (self-learning characteristic), i.e. the unit is able to automatically extend the switch off delay time to max. 15 min or reduce it to the minimum set time.

Please note: The switch-off delay time does not change with a setting of 2 minutes or less. Optimum switching behaviour will be obtained when the switch-off delay time is controlled from the detector with settings of more than 2 minutes.

Pulse Function

In order to control existing staircase lighting timers, the switch off delay time can be set to "Pulse". In this position, the switched output for light generates a short pulse (duration 0.5s) every 10 seconds in case of presence and darkness.

Light Measurement

Brightness Measurement

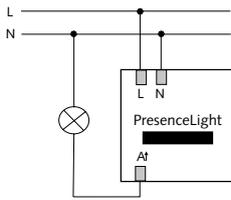
The PresenceLight 180 presence detector is equipped with a mixed light measurement. As the mixed light measurement is influenced by artificial light, the brightness for indirect lighting on the site of installation must not exceed 2000 Lux (for brightness threshold > 200 Lux).

If the brightness threshold value is set to "on", the brightness measurement is deactivated (no influence by brightness desired).

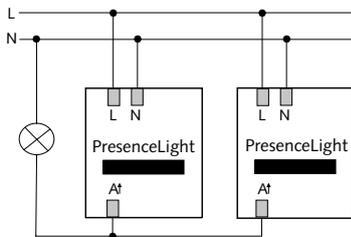
Suitable Lamps

The PresenceLight 180 presence detector is designed for use with fluorescent lights (FL/PL) as well as halogen/incandescent lights.

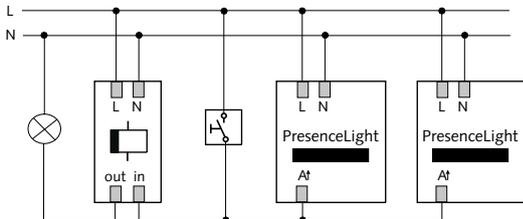
Schematic Wiring Diagram for Single Unit Operation



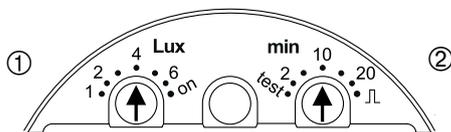
Schematic Wiring Diagram for Parallel Circuit Operation



Schematic Wiring Diagram with ext. Stair Case Lighting Timer



Settings on PresenceLight 180



Location

Detection Range

The recommended mounting height is 2,2m.

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 7m x 3.5m (see detection range top-view on page 1).

Walking persons are detected reliably in a range with radius of 8m.

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

Accessories

QuickSet plus Service Remote Control

For the start-up procedure, the QuickSet plus service remote control is available for the installation personnel or the technical service. It allows convenient remote adjustment of all potentiometer values. Manual adjustment of the potentiometers directly on the device remains possible at all times.

Surface Frame

A suitable frame for surface mounting is also available.

Settings

- ① Brightness threshold (Lux)
- ② Switch-off delay time for light, activation of pulse function, test operation setting

Technical Specifications Presence Detector PresenceLight 180

Presence detector	PresenceLight 180
Detection range:	horizontal 180°
Recommended mounting height (Mh)	approx. 1.6 - 2.2m
Maximum range	< 10m
Mixed light measurement Light measurement deactivated	approx. 10 - 1500Lux „on“
Switch off delay time Short pulse	10s - 20 min. 0.5s „on“ / 10s „off“
Switching contact	230V ± 10%, 50Hz
Max. switching capacity incandescent lamps, halogen	1400VA 1200W
Max. number of electronic ballasts*) A relay or contactor must be connected in case of more powerful devices	10x (1x 58W); 5x (2x58W) 16x (1x36W); 8x (2x36W) 16x (less than 36W)

*) Use of T5-FL: When using T5-FL lamps with a comparable wattage, the same number of electronic ballasts may be connected to the detector's switching contact as for the T8-FL. When using the 80W-FL, the number should be halved in comparison to the 58W-FL.

Mounting	
Mounting depth	40mm
Diameter	48mm
Mounting plate integral part	70 x 70mm
Screw terminals	max. 2x 2.5mm ²
Size of concealed housing (for flush-mounting)	1 (NIS,PMI)
Ambient temperature	-20° to 50°C
Degree of protection (installation with gasket set or surface-mounting frames)	IP54
Article numbers	
PresenceLight 180	200 0 050
Surface frame for PresenceLight	907 0 513
Gasket set IP54 for flush mounting	
Service remote control QuickSet plus	907 0 532
User remote control clic	907 0 515

Ⓒ This device complies with the protection regulations of the EMC directives 89/336/EWG and NSR EWG 73/23.