Description

- Passive infrared presence detector for flush/surface mounting
- Square detection area 360° (up to 64 m²) for accurate and easy planning
- Automatic presence- and brightness-dependent control for lighting and HVAC
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- 2 independent constant light controllers #3050 for controlling two light groups
  - Switching or constant light control with standby function
  - Fully or semi-automatic function mode
- 3 x occupancy controller #3071
  - for controlling the constant light controller or use as presence channels
- Light sensor #1010
- Occupancy sensor #1060
- Plug-in for convenient adjustment of parameters and functionality
- Brightness set point value can be set via network variables
- Scene Panel #3250 can be used with the SendoClic user remote control
- Integrated scene module (Scene controller #3251)
- Parallel switching of multiple presence detectors without logic modules
- Adjustable sensitivity
- Can be configured remotely
- SendoPro management remote control (optional)
- SendoClic user remote control (optional)
- LONMARK certified

Technical data

<table>
<thead>
<tr>
<th>Topology</th>
<th>LON FTT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>24 V AC/DC</td>
</tr>
<tr>
<td>Recommended installation height</td>
<td>2 – 3 m</td>
</tr>
<tr>
<td>Minimum height</td>
<td>1,7 m</td>
</tr>
<tr>
<td>Installation type</td>
<td>Flush/surface ceiling mounting</td>
</tr>
<tr>
<td>Power consumption</td>
<td>~30 mA</td>
</tr>
<tr>
<td>Light measurement</td>
<td>Mixed light measurement</td>
</tr>
<tr>
<td>Setting range brightness</td>
<td>5 – 2000 lx</td>
</tr>
<tr>
<td>Switch-off delay</td>
<td>10 s – 100 min</td>
</tr>
<tr>
<td>Lamps</td>
<td>Incandescent/halogen lamps, fluorescent lamps, energy saving lamps, LEDs</td>
</tr>
<tr>
<td>Switch-on delay presence</td>
<td>10 s – 30 min / inactive</td>
</tr>
<tr>
<td>Type of connection</td>
<td>Spring terminals WAGO 243</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-10 °C … +50 °C</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP 20 (IP 40 when fitted)</td>
</tr>
<tr>
<td>Conformity to type CE</td>
<td>This device complies with the protection regulations of the EMC directives 2004/108/EC.</td>
</tr>
</tbody>
</table>
The PresenceLight PLLON presence detector uses the following standardised LONMARK function profile. The function of the presence detector is dependent on the connections of the function profile and its parameters.

**Light sensor (LONMARK profile 1010)**

The light sensor sends the current brightness value in Lux at the place where the detector was installed over the Lonworks network, either cyclically or in case of sufficiently large changes. The measured brightness value can be adapted to the current situation in the room with a calibration (room correction factor).

**Occupancy sensor (LONMARK profile 1060)**

If the presence detector detects a movement, the output of the occupancy sensor will be set to the state OCCUPIED. This presence signal is used, for example, by an occupancy controller for presence-dependent control.

**Occupancy controller (3 x LONMARK profile 3071)**

There are 3 occupancy controller-type function profiles available for presence-dependent control of light channels or other controllers. The three outputs can be used universally. For example, one can be used to control both light outputs, a second controls the wall panel light group depending on the brightness level, while a third is used for presence-dependent HVAC control. The presence test mode is also part of the occupancy controller.

**Constant light controller (2 x LONMARK profile 3050)**

There are 2 function profiles of the constant light controller type available. Each of the two constant light controllers optionally supports the daylight-dependent switching function or constant light control. Both controllers can be used independently of one another. The lighting can be manually switched or dimmed at any time via a push button. A short button press switches the light on or off, a longer button press dims the light down or up (with constant light control). Depending on which of the two network variables was used, different behaviour appears after the manual override:

- **Manual dimming stops the constant light control.**
- **Constant light control remains active after manual dimming to new brightness set point value.**

**Remote control (2 x LONMARK function profile 3200)**

2 function profiles for remote control are available, one for each button series on the user remote control SendoClic. Every function profile passes on the IR commands received from the user remote control SendoClic to the configured output variables for control of blinds, lights, etc. This allows either the light groups controlled by the presence detector itself to be manually switched and dimmed or external light groups or blinds to be operated

**Scene panel (LONMARK function profile 3250)**

The scene panel broadcasts the scene numbers which can be triggered via both scene buttons on the user's SendoClic remote control

**Scene controller (LONMARK function profile 3251)**

The scene controllers are controlled either from external scene buttons or by the user's SendoClic remote control via the scene panel of the presence detector. There are two scenes available per each scene output object.
Detection range

The square detection ranges ensure safe and simple planning. Connected in parallel, they allow the entire room to be covered. Please note the difference in size of the detection ranges for seated and walking persons.

The recommended mounting height is 2 m - 3 m. The sensitivity of the detector decreases with increasing mounting height. Form a mounting height of more than 3.5 m walking movements are required for detection, and the detection ranges of multiple detectors should overlap in their fringe zones.

Seated persons

The presence detector reacts very sensitively to the slightest movements. 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 more than 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).

<table>
<thead>
<tr>
<th>Mounting height (A)</th>
<th>Sitting (S)</th>
<th>Walking (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 m</td>
<td>9 m²</td>
<td>3 m x 3 m</td>
</tr>
<tr>
<td>2.5 m</td>
<td>16 m²</td>
<td>4 m x 4 m</td>
</tr>
<tr>
<td>3 m</td>
<td>20 m²</td>
<td>4.5 m x 4.5 m</td>
</tr>
<tr>
<td>3.5 m</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Brightness Measurement

The presence detector measures artificial and natural light, which is reflected below the detector (beam angle approx. ± 30°). The installation site is a reference point for the lighting level. Brightness measurement can be adapted to the conditions in a room with the room correction factor. Direct light influences the light measurement. The placement of the floor lamps or suspended lighting directly below the detector is to be avoided.

Suitable lamps

The presence detector is designed for the operation for fluorescent lamps, compact fluorescent lamps, halogen/ incandescent lamps and LEDs.

Scale drawings
## Accessories

**Surface frame PresenceLight 40WH**
- Article number: 9070606
  - [Details ▶ www.theben.de](http://www.theben.de)

**Surface frame PresenceLight**
- Article number: 9070513
  - [Details ▶ www.theben.de](http://www.theben.de)

**SendroPro 868-A**
- Article number: 9070675
  - [Details ▶ www.theben.de](http://www.theben.de)

**SendroClic**
- Article number: 9070690
  - [Details ▶ www.theben.de](http://www.theben.de)

**QuickSafe**
- Article number: 9070531
  - [Details ▶ www.theben.de](http://www.theben.de)

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## Product selection

<table>
<thead>
<tr>
<th>Installation type</th>
<th>Channel</th>
<th>Operating voltage</th>
<th>Colour</th>
<th>Type</th>
<th>Article number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling installation</td>
<td>2 x Light</td>
<td>24 V AC/DC LON FTT</td>
<td>Pure white (similar to RAL 9010)</td>
<td>PresenceLight 360 PLLON WH</td>
<td>2009100</td>
</tr>
<tr>
<td>Ceiling installation</td>
<td>3 x Occupancy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling installation</td>
<td>2 x Light</td>
<td>24 V AC/DC LON FTT</td>
<td>Black (similar to RAL 9005)</td>
<td>PresenceLight 360 PLLON BK</td>
<td>2009101</td>
</tr>
<tr>
<td>Ceiling installation</td>
<td>3 x Occupancy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling installation</td>
<td>2 x Light</td>
<td>24 V AC/DC LON FTT</td>
<td>Silver (similar to RAL 9006)</td>
<td>PresenceLight 360 PLLON SR</td>
<td>2009102</td>
</tr>
</tbody>
</table>