1. USE

This device is used to control a light source automatically by detecting movement in a monitored area.
Motion sensor with detection angle of 2 x 12 m.
Detection type: infrared (PIR)
Mounting type: ceiling

2. TECHNICAL CHARACTERISTICS

Voltage: 100 - 240 V~
Frequency: 50/60 Hz
No-load power consumption: 0.2 W
Output via normally open contact connected to the phase
Wiring: 2 x 2.5 mm²
Drilling diameter: 65 mm without flush-mounting box
68 mm with flush-mounting box
Weight: 114 g
Impact resistance: IK04
Penetration by solid and liquid matter: IP20
Usage temperature: - 5°C to + 45°C
Storage temperature: - 20°C to + 70°C
Corridor sensor - PIR

3. DIMENSIONS

Without protective cover

With protective cover

4. CONNECTION

Number of terminals: 4
Type of terminals: automatic
Terminal capacity: 2 x 2.5 mm²
Stripping length: 8 mm

4.1 Wiring with auxiliary control:

4.2 Wiring without auxiliary control: Auto on/Auto off

Wiring
4. CONNECTION (continued)

■ 4.3 Wiring for several loads connected in parallel

■ 4.4 Wiring for a single load connected in parallel
5. INSTALLATION

6. REMOVAL

Catalogue number(s): 0 488 17
7. OPERATION

Manual ON/Automatic OFF mode
Pressing the auxiliary control allows the load to be switched on or off manually. If the control is not pressed, the sensor will cut off the load at the end of the time delay or when the light level threshold has been reached.

Auto ON/OFF mode:
The load will be switched on and off automatically.

Option: It is possible to control the sensor by infrared remote control using Cat. Nos. 0 882 00/01/20/31/32/33.

7.1 More than one sensor and more than one load

- Inversion of the state of the loads: \(< 1 \text{s}\)
- Synchronisation of all loads to ON: \(> 1 \text{s} + \) \(< 1 \text{s}\)
- Synchronisation of all loads to OFF: \(> 1 \text{s} + \) \(< 1 \text{s}\)

7.2 Several sensors connected to a single load

PB
- Inversion of the state of the loads: \(< 1 \text{s}\)
- Synchronisation of all loads to ON: \(> 1 \text{s} + \) \(< 1 \text{s}\)
- Synchronisation of all loads to OFF: \(> 1 \text{s} + \) \(< 1 \text{s}\)
8. SETTINGS

8.1 Detection parameters

<table>
<thead>
<tr>
<th>Sensor parameters</th>
<th>Default value</th>
<th>Modifiable parameters</th>
<th>Configuration tools 0 882 30</th>
<th>0 882 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time delay</td>
<td>10 min</td>
<td>3, 5, 10, 15, 20 min</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 - 59 min 59 s</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>PIR (very high)/US (high)</td>
<td>Low, medium, high, very high</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Modes</td>
<td>Auto on/Auto off</td>
<td>Inactive</td>
<td>Activate/Deactivate</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Walk-through mode</td>
<td>Active</td>
<td>Activate/Deactivate</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Manual on/Auto off</td>
<td>Inactive</td>
<td>Activate/Deactivate</td>
<td>✓</td>
</tr>
<tr>
<td>Detection system</td>
<td>Initial</td>
<td>PIR and/or US, PIR, US</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Maintain</td>
<td>PIR or US</td>
<td>PIR and/or US, PIR, US</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Restart</td>
<td>PIR or US</td>
<td>PIR and/or US, PIR, US</td>
<td>✓</td>
</tr>
<tr>
<td>Alarm</td>
<td>Inactive</td>
<td>Activate/Deactivate</td>
<td>✓</td>
<td>-</td>
</tr>
</tbody>
</table>

Time delay: Length of time the load is on after detection.
Pulse mode (push-button mode): If the time delay parameter is at 0, the sensor is in push-button mode. In this case, there is a 10 minute time delay before the load is switched off. If the setting is overridden or there is a new detection, the 10 minute time delay starts again.
Available with configuration tool 0 882 30.

Sensitivity: Detection range setting.

Modes:

Auto on/Auto off mode:
Automatic switch-on:
- On detection of presence if the natural light level is insufficient.
Automatic switch-off:
- If no presence is detected and at the end of the set time delay
- Or if the natural light level is sufficient (regulation activated)
Another detection causes automatic switch-on if there is insufficient light.

Walk-through mode:
- If no presence is detected in the 20 seconds following an initial detection, the product will cut off the load after 3 minutes.
- If another presence is detected in the 3 minutes following initial detection, the device will cut off the load at the end of the set time delay.

Manual on/Auto off mode:
Manual switch-on, automatic switch-off:
- When no presence is detected and at the end of the set time delay.
After switch-off, any new detection within a 30 second period triggers an automatic switch-on. The Restart function must be activated.
After 30 seconds the device is switched on via a manual switch.

8.2 Light parameters

<table>
<thead>
<tr>
<th>Sensor parameters</th>
<th>Default value</th>
<th>Modifiable parameters</th>
<th>Configuration tools 0 882 30</th>
<th>0 882 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light level threshold</td>
<td>150 lux</td>
<td>20, 100, 300, 500, 1000 lux</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 - 1275 lux</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>Calibration</td>
<td>-</td>
<td>0 - 99995 lux</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>Regulation</td>
<td>Active</td>
<td>Activate/Deactivate</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>Light contribution</td>
<td>Auto</td>
<td>Auto - 1275 lux</td>
<td>✓</td>
<td>-</td>
</tr>
</tbody>
</table>

Light level threshold: Value at which the load comes on if the natural light level is less than the setting.

Eye function: Value 0 (eye on configuration tool 0 882 30) is used to save the ambient light level in the room as a light level threshold.

Advanced mode:

Calibration: The ambient light level measured with a luxmeter must then be transmitted to the detector.
Regulation: Automatic switch-off of the load 10 minutes after the light level threshold is exceeded with an additional safety threshold (to avoid lights switching off at the wrong moment).
Light contribution: Quantity of additional lux provided by the load being switched on.
When the light contribution parameter is set to "Auto" on the configuration tool, the sensor automatically calculates the light contribution.

8.3 Modifying the parameters using the configuration tools

- 0 882 35: Simplified configuration tool
- 0 882 30: Advanced configuration tool
When the sensor receives an IR command via a configuration tool, it emits a beep confirming that the modification has been taken into account.
For more information about setting parameters, refer to the data sheet for the configuration tool Cat. No. 0 882 30.

Return to factory settings:
2nd press: Press and hold down LEARN for 10 seconds until the LED flashes quickly.
9. PERFORMANCE

<table>
<thead>
<tr>
<th>Height (m)</th>
<th>Sensitivity Low (25%)</th>
<th>Sensitivity Medium (50%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a (m)</td>
<td>b (m)</td>
</tr>
<tr>
<td>2.5</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>3.5</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

10. CARE

Keep the lens clean. Clean the surface with a cloth. Do not use acetone, tar-removing cleaning agents or trichloroethylene. Resistant to the following products:
- Hexane (EN 60669-1)
- Methylated spirit
- Soapy water
- Diluted ammonia
- Bleach diluted to 10%
- Window-cleaning products

Caution:
Always test before using other special cleaning products.

11. STANDARDS

Directive: CE
Installation standards: NFC 15-100
Product standards: IEC 60669-2-1
Environmental standards:
- European directive 2002/96/EC: WEEE (Waste Electrical and Electronic Equipment)
- European Directive 2002/95/EC: RoHS (Restriction of Hazardous Substances)
- Decrees and/or regulations: Public buildings Workplace buildings High-rise buildings

12. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSES</th>
<th>SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting stays on when there is no-one present</td>
<td>Some sources of interference, such as air currents, vibrations and radiators, can cause unintended operation</td>
<td>1- Reduce the sensitivity level 2- If the interference continues, using the configuration tool, go into the Detection system parameters, select Maintain and then choose PIR 3- If the interference still continues, move the sensor away from the source(s) of interference</td>
</tr>
<tr>
<td>Lighting does not switch off during the day when there is an adequate level of natural light</td>
<td>Regulation function not active Light level threshold set too high Light contribution is too high</td>
<td>Activate the regulation function Reduce the light level threshold Check that the sensor is positioned correctly in relation to the window Decrease the power of the luminaires</td>
</tr>
<tr>
<td>Lighting switches off when there are people present and the natural light level is not adequate (darkness)</td>
<td>Time delay too short Detection sensitivity too low Light level threshold too low</td>
<td>Increase the time delay 10 to 1 minutes is recommended for work areas Increase the sensitivity Move the sensor closer to the work area Increase the threshold</td>
</tr>
</tbody>
</table>