1. Mounting preparations

Work on the 230V mains supply may only be carried out by qualified professionals or by instructed persons under the direction and supervision of qualified skilled electrical personnel in accordance with electrotechnical regulations.

Disconnect supply before installing!

The device is not suited for safe disconnection of the mains supply.

2a. Installation of the LUXOMAT® PD3N-1C-NO-PF-FC (dry contact)

- Sensor inset
- Cover ring pluggable incl. cover for LEDs (2a)
- Blind
- Protection cover
- Ceiling (drill hole Ø 68 mm)

2b. Test cycle

The product enters an initial 60-second self-test cycle, when the supply is first connected. The occupancy detector is ready for operation.

3. Putting into operation / Settings

Follow-up time “Min/Sec”

The time can be set infinitely variably at between 30 seconds and 30 minutes. Symbol – impulse < 1 sec.

Symbol TEST: Test mode

(Every movement switches on the light for a period of 1 second, switching it off for a period of 2 seconds regardless of the level of brightness)

Determination of the current brightness

Set potentiometer to the “Test” setting. The green LED lights up permanently as soon as the value set at the potentiometer “Lux” drops below the current measured brightness.

Twilight-switch “Lux”

The switch-on values for the light can be set at between 5 and 2000 Lux. Using the rotary control, the luminance set points can be set as desired.

Symbol – Day operation, light sensor is inactive, it switches on/off regardless the light level

Sensitivity/Range

Adjustment of sensitivity for reduction of range resp. for minimization of failure switching on outdoor area.

Follow-up time / Impulse function

Stepwise increasing of the actual luminance set point of 20 Lux every time you push the button (50 Lux from 100 Lux)

Deactivation:

Automatic reading in the current light value as new luminance set point

Determination of the switch on threshold

Follow-up time / Impulse function Channel 1

Stepwise increasing of the actual luminance set point of 20 Lux every time you push the button (50 Lux from 100 Lux)

Day operation: light sensor is inactive, it switches on/off regardless the light level / Night operation: very low luminance set point of approx. 5 lux for special applications

4. Settings carried out using remote control (optional)

Remote control LUXOMAT® IR-PD3N

1. Check battery

open battery compartment by pressing the plastic springs together and removing the battery-holder.

2. Hardware Reset

Reset: The setting of “factory-setting” from any other position causes a “Reset” of the device. That means all operating modes activated at that time are reset to the factory setting (fast flashing of all LEDs for 5 seconds).

Caution:

Settings with remote control supersede the settings by courtesy of potentiometers.

Option:

Settings with remote control

Unlocking device

or

or

or

or

Determination of the switch on threshold

Unlocking device

Channel 1:

Light ON/OFF (party function)

Reset when open:

Deletes all values set with the remote control, the settings on the potentiometer apply.

or

or

or

or

or

Lock device

If there is not reaction for about 3 minutes the programming mode will be deactivated.

Permanent protection against sabotage

This function blocks the unit permanently (green LED is illuminated for motion display). This operating mode can only be activated during the period of 5 seconds after pressing the “lock” button (white LED is flashing). The procedure for leaving this mode is to implement a Reset (see point 4) or to act as follows:

1. Switch off the current
2. Apply current for 31 to 59 seconds
3. Switch on the current again
4. Apply current
5. Open detector

In the initialisation period

12 h Light ON/OFF (party function)

Activated by “Light” - push button

Deactivated by “Reset” - push button (default)

Description of the button functions

1. Switch off the current
2. Apply current for 31 to 59 seconds
3. Switch on the current again
4. Apply current
5. Open detector

Caution:

Settings with remote control supersede the settings by courtesy of potentiometers.

Option:

Wall bracket for remote control IR-PD3N

IR-PD-Mini

IR-PD3N

PD3N-1C_potentialfrei_311012_SI8.indd   1
10/31/2012   3:43:52 PM
5. Manual Switching
You can switch the lighting on and off manually by pressing the pushbutton for a short time. It will stay on or off as long as people are detected plus the configured follow up time.

By pushing the button for more than 3 seconds the lighting will be switched on for 12 hours (Party program) and returns to full automatic mode after timeout.

6. Range

![Image of range diagram]

<table>
<thead>
<tr>
<th>Distance (m)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>walking across</td>
</tr>
<tr>
<td>4</td>
<td>walking towards</td>
</tr>
<tr>
<td>6</td>
<td>smaller movements</td>
</tr>
</tbody>
</table>

7. Exclude sources of interference

In case the sensing area of the LUXOMAT® PD3N-1C is too large or areas are being covered that should not be monitored, the range can be reduced or limited by using the enclosed masking clips.

8. Article / Part no. / Accessory

<table>
<thead>
<tr>
<th>Type / Accessory</th>
<th>FC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD3N-1C-NO-PF</td>
<td>F2076</td>
</tr>
<tr>
<td>LUXOMA® Remote control: IR PD3N (incl. wall bracket)</td>
<td>92105</td>
</tr>
<tr>
<td>IR PD-Mini</td>
<td>92159</td>
</tr>
<tr>
<td>Accessory: ISK Ball basket guard</td>
<td>92199</td>
</tr>
</tbody>
</table>

9. LED-functional indicators

<table>
<thead>
<tr>
<th>LED function indicators after each mains recovery (60sec. initialisation period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating state</td>
</tr>
<tr>
<td>Double-locked</td>
</tr>
<tr>
<td>Indicator unprogrammed</td>
</tr>
<tr>
<td>Standard mode</td>
</tr>
<tr>
<td>12h ON/OFF active</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LED function indicators during operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process</td>
</tr>
<tr>
<td>Motion detection</td>
</tr>
<tr>
<td>Impulse mode active</td>
</tr>
<tr>
<td>12h ON/OFF function active</td>
</tr>
<tr>
<td>IR command</td>
</tr>
<tr>
<td>IR command “Open” and sabotage active</td>
</tr>
</tbody>
</table>

10. Wiring diagrams

Standard mode with 1-channel motion detector

![Diagram of standard mode with 1-channel motion detector]

Standard mode with 1-channel motion detector with NC pushbutton

![Diagram of standard mode with 1-channel motion detector with NC pushbutton]

T1 = NC button
Manual switching additionally possible (press opener approx. 2 sec.).

11. Technical data PD3N-1C-NO-PF

Sensor and power supply in one case
Power supply: 230V - ±10%
Terminal clamps: for single-wire conductor
Power consumption: < 0.25 W
Ambient temperature: 25°C to +50°C
Degree of protection/class: IP23 / II
Settings: via potentiometer or remote control
Area of coverage: circular 360°
Range of coverage Ø H 2.5 m / T=18°C:
- Smaller movements 4 m / tangential 10 m / radial 6 m
- Continuous thermal activity detected: contact heating ducts, animals within detection area:
- Fan, central heating system, electrician: non-programmed indicator
- Incorrect setting of CDS twilight threshold: programmed indicator
- PD3 mounted too high:
- PD3N connected in parallel to a manual override switch:
- PD3N has to turn OFF lighting.
- No mains connection/power:
- No mains connection/power: PD3N by covering the fresnel-lens. After expiry of delay timer, PD3N has to turn OFF lighting.
- LUXOMA® PD3N is mounted too high:
- See table of mounting heights.
- LUXOMA® PD3N connected in parallel to a manual override switch:
- Connect switch correctly

12. Trouble shooting

1. Lamp does not light up
Lamp may be defect:
- Replace lamps
- Check connection and mains fuse by qualified electrician
- Incorrect setting of CDS twilight threshold:
- Correct setting of CDS twilight threshold
- Lens of sensor unit abraded by dirt or other objects:
- Clean lens, remove objects

2. Lamp turns ON too late or detection range too small
- LUXOMA® PD3 is mounted too high:
- See table of mounting heights.
- LUXOMA® PD3N has to turn OFF lighting.

3. Lamp stays ON continuously
Continuous thermal activity detected: fan, central heating ducts, animals within detection area:
- PD3N connected in parallel to a manual override switch:
- Connect switch correctly

4. Unintended switching of light
Movement of heat source within detection area:
- Check on presence of animals, fans or heaters

13. PD3N-1C-Connections

![Diagram of PD3N-1C-Connections]

PD3N-1C-NO-PF-FC (dry contact)

Declaration of Conformity: The product complies with the low voltage recommendation 2006/95/EC and the EMV recommendation 2004/108/EC.