1. Mounting preparations

Work on the 230 V 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-SM Micro:

- Sensor inset
- Cover ring pluggable incl. cover for LEDs (2a)
- Blind
- SM-Socket

The detector must be installed on a solid and level surface. There is no need for frames.

2b. Installation of the LUXOMAT® PD3N-1C-FC Micro:

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

The product enters an initial 60-second self-test cycle, when the supply is first connected. The occupancy detector is ready for operation (see LED-functional indicators point 9).

2c. Self test cycle:

- Test mode
- Test Min/Sec
- Test Lux

The setting of "factory-setting" or "lock" button (white LED is flashing). The procedure for leaving follow-up timer and switch the relays off. Press Reset

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 value for the light can be set at between 10 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

Sound

Max: highest sensitivity
Min: microphone switched off
Intermediate values to be adjusted accordingly to local conditions. Lighting of the LED means the noise detector is functioning and triggers the timer again. The microphone is active for 9 seconds after the last movement and time delay completed.

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 (last flashing all LEDs for 5 seconds).

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

5. Open detector

4. Apply current for 31 – 59 seconds
3. Switch on the current again
2. Apply current for 31 - 59 seconds
1. Switch off the current

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)

Or:

Each setting (fast flashing of all LEDs for that time are reset to the factory set point 9).

Unlocking device

Reset when open:

Deactivate by "Reset"- push button (default)

Determination of the switch on threshold

Deactivation: Press Reset

Resetting when closed

Stop a running follow up timer and switch the relays off.

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 - 59 seconds
3. Switch on the current again
4. Apply current
5. Open detector

Permanent protection against sabotage

In the initialization period

12 h Light ON/OFF (party function)

Activated by "Light" - push button

Deactivated by "Reset", push button (default)
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

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

9. LED-functional indicators

10. Wiring diagrams

11. Technical data PD3N-1C Micro

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 – +50°C

Degree of protection/class: SM = IP44; FC = IP23 /Class II

Settings: via potentiometer or remote control

Area of coverage: circular 360°

Range of coverage Ø H 2.5 m / Θ 18°C

smaller movements 4 m / tangential 10 m / radial 6 m

Recommended height for mounting: 2 - 3 m

Lux values: 10 - 2000 Lux

+ Channel 1 for light-connection

Type of contact: NO/NC with travel tugethon contact and zero crossing circuit

Contact load: 2300 W cos φ = 1 /

1150 VA cos φ = 0.5, µ-Contact

Time-settings: 30 sec. - 30 min./Test

Dimensions H x Ø [mm] SM = 53 x 106 81 x 83

FD3N visible portion when built into ceiling: 34 x 106 mm

EMV recommendation 2004/108/EC.

the low voltage recommendation 2006/95/EC and the EMV recommendation 2004/108/EC.

12. Trouble shooting

1. Lamp does not light up

Lamp may be defect:

Replace lamps

No mains connection/power:

Check connection and mains fuse by qualified electrician

Incorrect setting of CDS twilight threshold:

Correct setting of CDS threshold

Lens of sensor unit obstructed by dirt or other objects:

Clean lens, remove objects

2. Lamp turns ON too late or detection range too small

LUXOMAT® PD3 is mounted too high:

See table of mounting heights: Correct mounting if required

3. Lamp stays ON continuously

Continuous thermal activity detected ie fan, central heating ducts, animals within detection area:

Remove heatsource. Check proper function of LUXOMAT® PD3N by covering the fresnel-lens. After expiry of delay timer, PD3N has to turn OFF lighting.

LUXOMAT® 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

PD3N-1C-Connections

PD3N-1C-FC Micro