BLEG. LUXOMAT® PD4N-1C

1) Sensor inset

3) Blind

4) SM-Socket

2) Lens pluggable

Installation and Operating Instruction

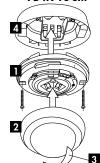
1. Mounting preparations

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

Disconnect supply before installing!

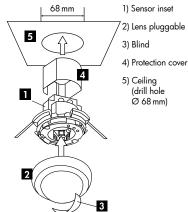
The device is not suited for safe disconnection of the mains supply.

2a. Installation of the LUXOMAT® PD4N-1C-SM

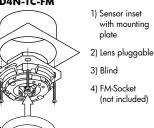


The detector must be installed on a solid and level surface. There is no need for frames.

2b. Installation of the LUXOMAT® PD4N-1C-FC



2c. Installation of the LUXOMAT® PD4N-1C-FM



2d. Self 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 Π : 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)

Determining 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" dropps 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



Sensitivity/Range

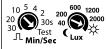
Adjustment of sensitivity for reduction of range resp. for minimization of failure switching on outdoor area.

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.



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

Caution:

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

Option:



IR-PD3N

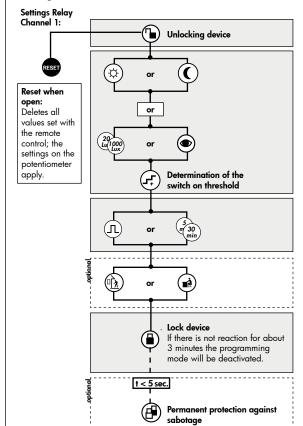


Wall bracket for remote control IR-PD3N



IR-PD-Mini

Settings with remote control



Description of the button functions



Luminance set point



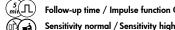
Day operation: light sensor is inactive, it switches on/off regardless the light level / Night operation: very low luminance set point of approx. 10 Lux for special applications



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



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



Follow-up time / Impulse function Channel 1



Activation of test mode in locked position **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

- Switch off the current
 - 2. Apply current for 31 59 seconds
 - 3. Switch of 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

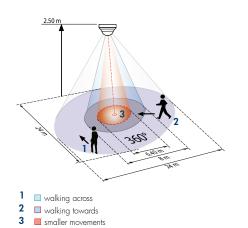
Deactivated by "Reset"- push button (default)

5. Manual Switching

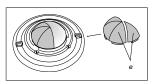
You can switch the lighting on and off manually by pressing the pushbutton for a short time. It will stay on or off as long as people are detected plus the configured follow up time.

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 $\textbf{LUXOMAT}^{\circledast}$ PD4N-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

Туре	SM	FC	FM	
PD4N-1C	92144	92149	92151	
IUXOMAT® Remote control: 92105 IR-PD-Mini 92159				
Accessory: BSK Ball basket guard			92199	

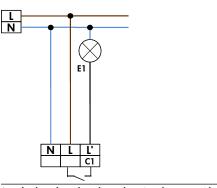
9. LED-functional indicators

LED function indicators after each mains recovery (60 sec. initialisation period)					
Operating state	LED function indicators				
Double-locked	White and green shines for 5 sec. all 20 seafterwards initialising notification				
	Indicator unprogrammed	Indicator programmed			
Standard mode	Red flashes	Red flashes quickly			
12 h ON/OFF active	Red and green flash	Red and green flash quickly			

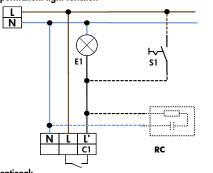
LED function indicators during operation			
Process	LED function indicators		
Motion detection	Red flashes on each detected movement		
Impulse mode active	Red and green flash one time all 4 sec.		
12 h ON/OFF function active	Red and green flash alternately		
IR command	White flashes once		
IR command "Open" and sabotage active	White and green flash once slowly		

10. Wiring diagrams

Standard mode with 1-channel motion detector



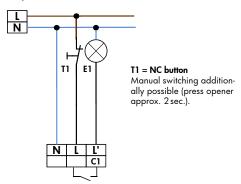
Standard mode with 1-channel motion detector with permanent light function



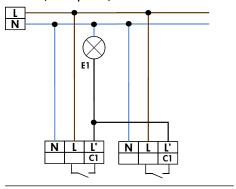
optional:

S1 = switch for permanent light RC = RC-suppression kit if required

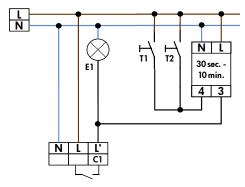
Standard mode with 1-channel motion detector with NC pushbutton



Parallel connection with 1-channel motion detectors (max. 8 parallel)



Standard mode with 1-channel motion detector (f.ex.



11. Technical data PD4N-1C

Sensor and power supply in one case Power supply: 230 V~ ±10 % Terminal clamps: for single-wire conductor < 0.25W Power consumption:

-25°C - +50°C SM = IP44; FC = IP23; FM = IP20 /Class II Ambient temperature: Degree of protection/class:

via potentiometer or remote control

Area of coverage: circular 360° Range of coverage Ø H $2.5 \,\mathrm{m}$ / T= 18° C:

smaller movements 6.4 m / tangential 24 m / radial 8 m

Recommended height for n ounting: 2 - 3 m Mixed light, daylight + artificial Light measurement:

light 10 - 2000 Lux

Lux values: Channel 1 for light-connection

Type of contact: NOC/with pretravel tungsten

contact and cero crossing circuit

 $2300 \text{ W } \cos \varphi = 1 /$ Contact load:

1150 VA $\cos \varphi = 0.5$, μ -Contact

30 sec. - 30 min. / Test SM FC Time-settinas: Dimensions H x Ø [mm] FM 65 x 109 95 x 106 76 x 106

Visible portion when built into ceiling: $34 \times 106 \, \text{mm}$

C E Declaration of Conformity: The product complies with 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. PD4N-1C-Connections

