B.E.G. LUXOMAT[®] PD4-M-3C-TRIO

Installation and Operating Instruction for **B.E.G.**-Occupancy detectors PD4-M-3C-TRIO-SM/-FC

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.

When in Master/Slave mode of operation, the Master-appliance must always be installed at the location where there is least daylight.

4. Putting into operation of the remote control IR-PD4-TRIO SWI (optional)

Check Battery: Open battery compartment by pressing

the plastic springs to

gether and removing the battery-holder. Caution: Settings with remote control su persede the settings by potentiometers.

5. Light measuring

In order to calculate a switching threshold, there is a five-minute light measurement. For his the detector switches off all channels and turns them on for five minutes afterward. This measurement is made if:

• a new brightness value is changed with the potentiometer

- a new nominal value is set by use of the remote control (finish setting up with CLOSE switch)
- The measurement is not done during the activated test function. Unlocking the device interrupts the

light measuring.

8. Option:

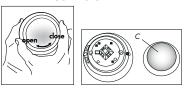


Part nr.: 92102



Wall bracket for remote control IR-PD4-TRIO SWI

2a. Installation of the LUXOMAT® PD4-M-3C-TRIO-SM

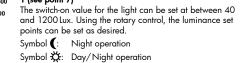


The detector must be installed on a solid and level surface. The circular cover ring must be removed prior to assembly. To do this, twist the lens (C) anticlockwise by approximately 5° and lift off

Having connected up the wires in accordance with regulations, secure the detector with 2 screws. After installation replace the lens and lock (turn clockwise). Mains to be connected.

olo₂s (1) ≉

6. Putting into operation / Settings Self test cycle After an initial 60-second self-test cycle (initialization), the LUXOMAT® PD4-M-3C-TRIO is ready for operation. Follow-up time for light control 3 (see point 7) The time can be set infinitely variably at between 1 and 60 minutes. The time-setting is valid for all 3 channels of the PD4-M-3C-TRIO. Symbol TEST: Test mode Every movement switches on the light for a period of 2 seconds, switching it off for a period of 2 seconds after that regardless of the level of brightness. Twilight-switch for light control (Channel 1) - potentiometer 1 (see point 7)

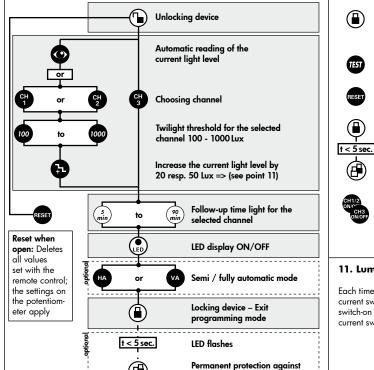


Twilight-switch for light control (Channel 2) - potentiometer 3 (see point 7) Settings identically equal to channel 1

Pulse spacing PD-Slave $2 \text{ or } 9 \text{ seconds can be set for the pause between 2 pulses sent to the Master. The setting can be made with activated () LED indicator.$

For devices with a separate Slave input, 2 sec. can be set.

9. Settings by remote control (Settings relay channel 1, 2, 3)



sabotage

2b. Installation of the LUXOMAT® PD4-M-3C-TRIO-FC

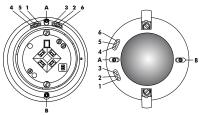
100 mm

8

A circular opening of diameter 100 mm must be produced in the ceiling.

Having connected up the cables in accordance with regulations, the detector is inserted into the opening as shown and fixed into position with the retaining bracket using screws.

3. Hardware configuration Position of light sensors and LEDs

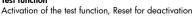


- A Light sensor 1 / B light sensor 2
- LED red OFF function 2
- LED green too light/too dark CDS 1 3 LED white semi-automatic switching channel 1
- LED white semi-automatic switching channel 2 4
- 5 LED green too light/too dark CDS 2
- 6 LED red motion indicator/walking test



Surface mounted CBA 6⁰1 3 ÀÀP Ŵ Ø 60 6 **2**⊚⊂ DIP 321 Ē é Α DIP 1 HA / A DIP 2 Ini OFF/ON В Lamps during the initialization OFF/ON DIP 3 RESET С False ceiling mounted

10. Explanation of the key functions (∎) Lock device 5 sec. after locking, device can be locked twice (protection against sabotage) Test function TEST



A

Resetting when locked Reset - determine of all timers, switching off the channels

Permanent protection against sabotage This function blocks the PD4-M-3C-TRIO permanently

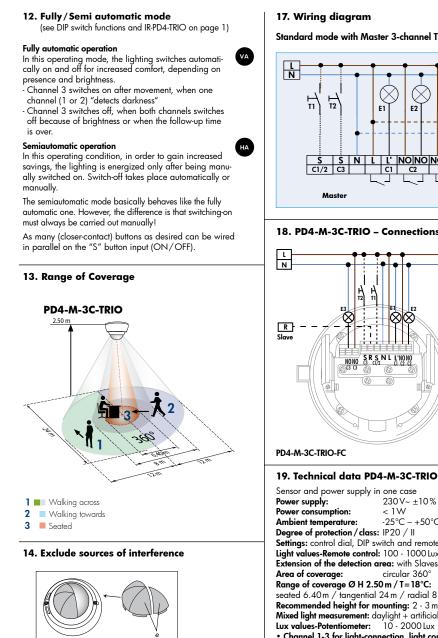
(all LED's are flashing). Proceed to exit this mode: reset the hardware using DIP switch 3

Channel ON/OFF

11. Luminance set point

Each time the push button is pressed, the device increases the current switch-on value in increments of 20 Lux for a current switch-on value of <100 Lux and in increments of 50 Lux for a current switch-on value of > 100 Lux.





In case the sensing area of the LUXOMAT® PD4-M-3C-TRIO is too large or areas are being covered that should not be monitored, the range can be reduced or limited through use of the enclosed masking clips (e).

15. Article / Part nr. / Accessory

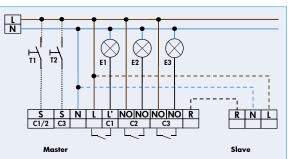
Туре	SM	FC	FM
PD4-M-3C-TRIO (Master)	92740	92745	-
PD4-S (Slave)	92142	92254	92163
LUXOMAT [®] Remote control: IR-PD4-TRIO-SWI (incl. wall brac Accessory:		92102	
SM-Socket IP44 for 92740 Wire basket BSK for 92740 Wire basket BSK for 92745 Wall bracket for remote control	ement	92386 92467 92199 92100	

16. Fault-finding

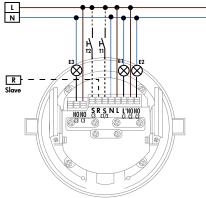
Permanently flashing Check whether DIP3 switch (RESET) is set to "ON" Reset to "OFF" if necessary

AAN 6714 - 050313-3

Standard mode with Master 3-channel TRIO occupancy detectors







230 V~ ±10% -25°C - +50°C Degree of protection / class: IP20 / II Settings: control dial, DIP switch and remote control Light values-Remote control: 100 - 1000 Lux Extension of the detection area: with Slaves circular 360° Range of coverage Ø H 2.50 m / T=18°C: seated 6.40 m / tangential 24 m / radial 8 m Recommended height for mounting: 2 - 3 m Mixed light measurement: daylight + artificial light measurement Lux values-Potentiometer: 10 - 2000 Lux Channel 1-3 for light-connection, light controlled
 Type of contact: NOC/with pretravel tungsten contact

 Contact load:
 3000 W, $\cos \varphi = 1 / 1500 \text{ VA}$,
 $\cos \varphi = 0.5, \ \mu \text{-Contact}$ Time-settings: 5 - 90 min. / Test with remote control 1 - 60 min. / Test with potentiometer Dimensions H x Ø [mm] SM FC 124 x 85 100 x 117 PD4-M-3C-TRIO Visible portion when built into ceiling: H 37 x Ø 117mm Technical data PD4-Slave

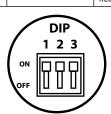
 $230\,V{\sim}\pm10\,\%$ Power supply: Impulse output:

Optocoupler max. 2W Impulse duration: 2 sec. or 9 sec. Dimensions: see above

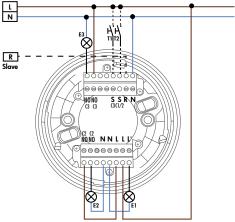
 ζ ξ Declaration of Conformity: The product complies with the low voltage recommendation 2006/95/EC and the EMV recommendation 2004/108/EC.

20. DIP switch functions

DIP switch	OFF	ON
1 (A)	Fully automatic channel 1, 2 and 3	Semi automatic channel 1, 2 and 3
2 (B)	Power supply ON / Light ON	Power supply ON / Light OFF
3 (C)		RESET



optional 1&2 = NO button for semi-automatic mode Slave for enlargement of detection area



PD4-M-3C-TRIO-SM

21. LED function displays

LED	Colour	Function	Display	
6	red	Display of movement	Flashing: motion is detected	
5	green	Display of light status channel 1	Flashes twice per second: - bright enough (light OFF/ too bright (light ON) Flashes once per second: - power-up delay activated	
4	white	Semi automatic and automatic channel 1	Shines in semi-automatic mode	
3	white	Semi automatic and automatic channel 2	Shines in semi-automatic mode	
2	green	Display of light status channel 2	Flashes twice per second: - bright enough (Light OFF/ too bright (Light ON) Flashes once per second: - power-up delay activated	
1	red	OFF function	Shines, when function is activated, that means that light is off in phase of initialisation	
All LED's		Confirmation	Flash once per second: - correct input flashes twice per second: - wrong input flashes 3 times/once per second: - Reset in closed mode flashes twice/once per second: - double closed	
LED2/LED5		Light measurement	Green LEDs flash by turns: - light measuring and cal- culating cut-off threshold	
All LED's		Status	Flash once per second: - Detector is double closed.	