BLE.G. LUXOMAT® PD4-M-DUO-DALI/DSI

Installation and Operating Instruction for B.E.G. - Occupancy detectors PD4-M-DUO-DALI/DSI-FC

1a. 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!

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

2b. Self test cycle

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

1b. Features

- For connection of up to 25 lamps for every DALI-output
- Suitable for dimmable electronic ballasts and control modules
- Two DALI outputs
- Constant light control
- Manual switching/dimming Semi or completely automatic operation
- Luminance (brightness) set point and switch-off delay time for light adjustable
- Sensor and power sections in one housing
- Infrared remote control
- Occupancy detector for two separate lighting groups
- One common detection area with two independent, movable light sensors

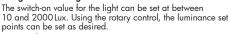
3. Putting into operation / settings

Follow-up time for light control

The time can be set infinitely variably at between 1 and 30 minutes. Symbol TEST: Test mode

 $\dot{\text{Every}}$ movement switches on the light for a period of 1 second, switching it off for a period of 2 seconds after that regardless of the level of brightness.

Twilight-switch for light control



Symbol (: Symbol 🔆: Night-time operation Daytime/Night-time operation

Orientation lighting (fixed to 20%)

The orientation lighting can be set infinitely variably at be-tween 5 and 60 minutes resp. "ON" for permanent orientation lighting or "OFF" for no orientation lighting.

Pulse spacing PD-Slave

0 2s 2 or 9 seconds can be set for the pause between 2 pulses sent to the master. The setting can be made with activated () or deactivated () LED indicator.

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

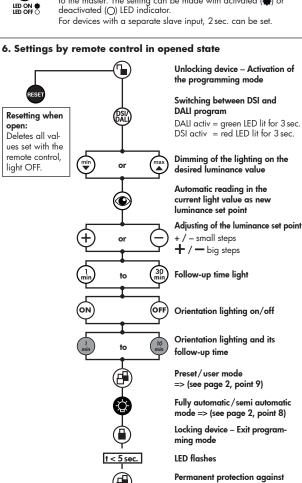
5. Option:



IR-PD-DALI

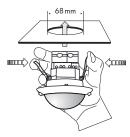


Wall bracket for remote control IR-PD-DALI



sabotage

2a. Installation of the LUXOMAT® PD4-M-DUO-DALI/DSI-FC



A circular opening of diameter 68 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 in the drawing above and fixed into position with the assistance of the spring clips.

4. Settings carried out using remote control (optional)

Remote control LUXOMAT® IR-PD-DALI

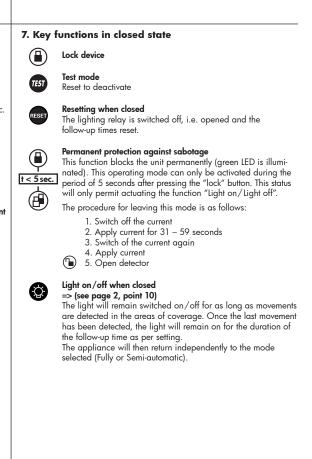




2. IMPORTANT Please pay attention, that the setting is Potentio-meter 1 at "TEST" and Potentiometer 2 **not** at "SUN". All values which have been programmed using the remote control will be deleted in the event of power failure in the position "TEST/ SUN". Please switch Potentiometer 2 over to "MOON" or any other value.

Caution:

Settings with remote control supersede the settings of the potentiometers.



8. Fully / Semi automatic mode

The system switches over when the "Light" push-buttor is open (see Remote control functions, page 1). Each time a pushbutton is pressed, the current operating mode is indicated by the red LED: = Fully automatic mode Lit for 3 sec. Flashing for 3 sec. = Semi-automatic mode

Fully automatic operation

In this operating mode, the lighting switches automatically on and off for increased comfort, depending on presence and briahtness

Semiautomatic operation

(Semiautomatic can only be activated via the remote control!) In this operating condition, in order to gain increased savings, the lighting is energized only after being manually switched on. Switch-off takes place automatically. The semiautomatic mode basically behaves like the fully

automatic one. However, the difference is that switching-on must always be carried out manually!

As many (closer-contact) buttons as desired can be wired in parallel on the "S" button input (ON/OFF).

9. Manual Dimming – Preset/User (for IR-PD-DALI functions see page 1)

You can dim manually by pressing the pushbutton for a long time (> 2 sec). When the button is released, the current dimming value is retained. Upon renewed dimming, the dimming direction is reversed.

PRESET - the luminance set point is set during start-up operation by the installer and remains unchanged. The luminance set-point configured through manual dimming is only applied for the time being. Caution:

The constant light regulation is now deactivated!

The currently set artificial light is retained independent of the ambient/daylight brightness!

After switching off and then back on, the originally set luminance set-point is reset = constant light regulation is activated.

USER – can only be activated via the remote control!

The luminance set-point is changed upon each manual dimming and re-adjusted by the user (Conformation through relay clicking!)

The constant light regulation remains activated!

10. 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.

11. Turn-on behaviour (Soft-Start)

Setting only possible during the self-test cycle!

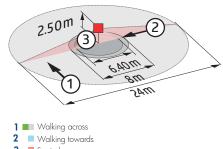


The setpoint can be approached in two ways after switch-on. Either the detector switches the light on at min 10% and then regulates upwards (min key) or it swit-ches the light on at 100% and regulates downwards (max key). This is confirmed by the red and white

LEDs and the lighting lighting lighting lighting briefly lighting up. In the factory setting, the detector first switches to 100%.

12. Range of Coverage



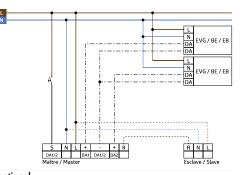


3 Seated

13. Wiring diagram

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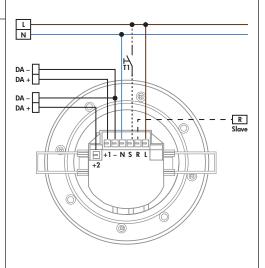
Standard mode with master DUO DALI/DSI occupancy detectors



optional

T1 = NO button for semi-automatic mode Slave for enlargement of detection area

14. PD4-M-DUO-DALI/DSI-FC - Connections



15. Technical data PD4-M-DUO-DALI/DSI

Sensor and power supply in one case Power supply: 230 V~ ±10 % Power supply: < 1W Power consumption: Ambient temperature: -25°C – +50°C Degree of protection/class: IP20 / II Settinas: locally and by remote control with IR-PD-DALI Light values - IR-PD-DALI: 50 - 1500 Lux Extension of the detection area: with Slaves circular 360° Area of coverage: 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 Light measurement: Mixed light, daylight + artificial light Lux values-Potentiometer: 10 - 2000 lux • DALI/DSI digital BUS control wire, 2-core, no polarity (broadcast only) Max. no. of series-connected electronic ballasts: up to 50 Time-settings: 1 - 30 min. / Test Dimensions H x Ø: 101 x 97 mm Visible part false ceiling mounted: 40 x 97 mm

Technical data PD4-Slave

Power supply:
mpulse output:
mpulse duration
Dimensions:

230 V~ ±10 % Optocoupler max. 2W 2 sec. or 9 sec. see above

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

16. Article / Part nr. / Accessory

Тур	FC
PD4-M-DUO-DALI/DSI-Master	92276
PD4-Slave	92254
LUXOMAT® Remote control: IR-PD-DALI (incl. wall bracket) IR-PD-DALI-E BLE-IR-Adapter IR-Adapter	92094 92122 93067 92726
Accessory: BSK Ball basket guard Wall bracket for remote control as replacement	92199 92100

17. LED-functional indicators, fault-finding

The functional indicators in the case of the **LUXOMAT**® PD4-M-DUO-DALI/DSI (red and green LED's)

Red LED indicating self-checking mode (over a period of 60 seconds following mains'-supply lock-on)

Flashing at intervals of 1 second EEPROM/memory empty

Flashing rapidly EEPROM/memory contains information

Red LED as an indicator of status

Flashing irregularly Movements are detected within the area of coverage

Flashing regularly Detector identifies bright, light off (dependent upon operating mode)

Not illuminated Detector identifies dark, light on (dependent upon operating mode)

Flashing extremely rapidly Too bright / Too ɗark / Úndefined

Red LED as an acknowledgement of receipt for

commands from the remote control Illuminated for 2 seconds Signal validly received

Illuminated for 0.5 seconds Not-accepted command, detector blocked

Flashing extremely rapidly Not-accepted command, occurs, for example, when an attempt is made to input twilight-value are too bright or too dark

Green LED as an acknowledgement of receipt for commands from the remote control

Lights up for 3 seconds Semi automatic or user signal correctly received

Green LED as an indicator of status (only for status "Permanent protection against sabotage")

Flashing irregularly Movement are detected within the area of coverage

Flashing regularly Detector identifies bright, light off (dependent upon operating mode)

Not illuminated Detector identifies dark, light on (dependent upon operating mode)

lluminated for 2 seconds Signal validly received (dependent upon operating mode)

WE RECOMMEND THAT BEFORE DIMMING OF THE CONNECTED LIGHTS A 100h BURN IN (T5 TUBES OR 80 HOURS FOR T8 TUBES) FUNCTION TAKES PLACE. THE LIFESPAN OF THE LAMPS CAN BE REDUCED IF THE BURN IN

DOES NOT TAKE PLACE.

