# **BLE.G. LUXOMAT®** PD4-M-DUO-DALI

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

\* For connection of up to twelve lamps for every DALI-output

\* Suitable for dimmable electronic ballasts and control modules

\* Luminance (brightness) set point and switch-off delay time for light

1b. Features

\* Two DALI outputs

adiustable

R1 🚺

\* Constant light control

\* Infrared remote control

\* Manual switching/dimming

\* Semi or completely automatic operation

\* Sensor and power sections in one housing

3. Putting into operation / settings

1 and 30 minutes.

brightness)

Follow-up time for light control

Twilight-switch for light control

set points can be set as desired.

Symbol (: Night-time operation

Symbol 🎇: Daytime/Night-time operation

The time can be set infinitely variably at between

Symbol TEST: Test mode (Every movement switches on

the light for a period of  $\tilde{1}$  second, switching it off for a period of 2 seconds after that regardless of the level of

The switch-on value for the light can be set at between

10 and 2000 Lux. Using the rotary control, the luminance

#### 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



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

**Option:** 





Wall bracket for remote control IR-PD-DALI



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



A circular opening of diameter 68 – 70 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



#### 1. Check Battery:

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

#### 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.

Lock device

Test mode Reset to deactivate

Resetting when closed

The lighting relay is switched off, i.e. opened and the follow-up times reset.

#### Permanent protection against sabotage

This function blocks the unit permanently (green LED is illuminated). This operating mode can only be activated during the period of 5 seconds after pressing the "lock" button. This status will only permit actuating the function "Light on/Light off".

- The procedure for leaving this mode is as follows:
  - 1. Switch off the current
  - Switch of the current
    Apply current for 31 59 seconds
    Switch of the current again
- 4. Apply current 5. Open detector

#### Light on / off

**(**)

The light will remain switched on/off for as long as movements are detected in the areas of coverage. Once the last movement has been detected, the light will remain on for the duration of the follow-up time as per setting. The appliance will then return independently to the mode selected (Fully or Semi-automatic).



SM-Socket IP54

#### 8. Range of Coverage

#### PD4-M-DUO-DALI



1 🔲 Walking across 2 🔲 Walking towards 3 Seated

Туре	FC
PD4-M-DUO-DALI-Master	92276
PD4-Slave	92254
<b>LUXOMAT<sup>®</sup> Remote control:</b> IR-PD-DALI (incl. wall bracket)	92094
Accessory: BSK Ball basket guard Wall bracket for remote control as replacement	92199 92100

92161

#### 12. Technical data PD4-M-DUO-DALI

Sensor and power supply in one case Power supply: 230V~ +6%/-10% Power consumption: < 1 W Ambient temperature: 25°C - +50°C Degree of protection/class: IP20 / II Settings: locally and by remote control with IR-PD-DALI Light values - IR-PD-DALI: 50 - 1500 Lux Extension of the detection area: with Slaves Area of coverage: 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 Light measurement: Mixed light, daylight + artificial light Lux values-Potentiometer: 10 - 2000 Lux digital BUS control wire, 2-core, no polarity Max. no. of series-connected electronic ballasts: up to 12 Time-settings: 1 - 30 min. / Test FC

101 x 97 Visible part false ceiling mounted 40 x 97

#### **Technical data PD4-Slave**

Electrical data same as above, but just one channel for signaling motion detection.

(  ${\bf f}$  Declaration of Conformity: The product complies with the low voltage recommendation 2006/95/EC and the EMV recommendation 2004/108/EC.

#### 13. LED-functional indicators, fault-finding

The functional indicators in the case of the LUXOMAT® PD4-M-DUO-DALI (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 Movements are detected within the area of coverage Flashing regularly Detector identifies bright, light off (dependent upon operating mode) Detector identifies dark, light on (dependent upon operating mode) Flashing extremely rapidly Too bright / Too dark / Undefined 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)

