

Installation and Operating Instruction for B.E.G.-Occupancy detector PD4-TRIO with 2 channels/1 DALI-outputs

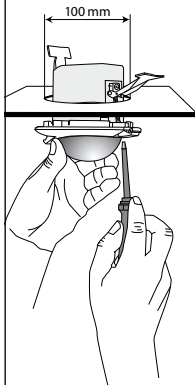
1. Mounting preparations

Work on the 230V 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 daylight.

2. Installation of the LUXOMAT® PD4-TRIO-2R-1D-FC

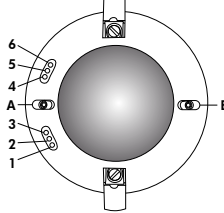


A circular opening of diameter 100 mm must be produced in the ceiling.

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 photo cells and LEDs

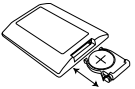


- A/B Photocell 1 / photocell 2
- 1 LED red HVAC - status
- 2 LED green channel 2 - status
- 3 LED white DALI - status
- 4 LED white semi-automatic/full-automatic
- 5 LED green light status
- 6 LED red detection of motion

4. Putting into operation of the remote control IR-TRIO-2R1D (optional)

Check Battery:

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



Caution: Settings with remote control supersede the settings by potentiometers.

5. Putting into operation / Settings

Self test cycle

After an initial 60-second self-test cycle, the LUXOMAT® PD4-TRIO-2R-1D is ready for operation. (LEDs are flashing).

Potentiometer 3 - Follow-up time channel 3 „HVAC“

The time can be set infinitely variably at between 5 and 120 minutes. The time-setting is valid for channel 3 of the PD4-TRIO-2R-1D.



Potentiometer 2 - Twilight-switch for light control DALI-channel 1

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.



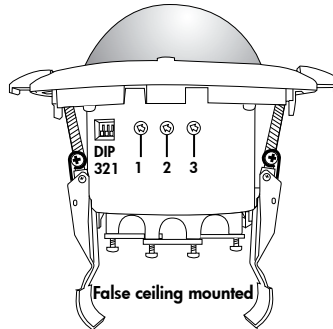
- Symbol ☾: Night operation
- Symbol ☀: Day/Night operation

Potentiometer 1 - Follow-up time DALI-channel and channel 2

Symbol TEST: Test mode
The time can be set infinitely variably at between 15 sec. and 30 minutes. The setting is valid likewise for DALI-channel and channel 2 of the PD4-TRIO-2R-1D.

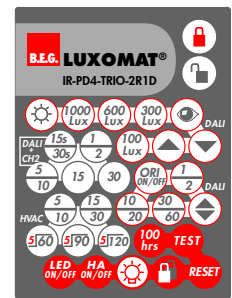


6. Position of potentiometer and DIP switch



- A DIP 1 Change between DALI and DSI
- B DIP 2 INITIALIZATION ON/OFF: Choice Light ON or OFF during the initialization
- C DIP 3 OFF-Time: Switching off is possible (Off as long as motion plus follow-up time)
OFF-Auto: 5 sec. after switching off the detector is in standard operation

Option: Remote control IR-TRIO-2R1D



Wall bracket for remote control IR-TRIO-2R1D

7. Functions/ settings with push button

Channel 1 (DALI)

- The DALI-channel switches on and off daylight-dependent.
- If the detector switches off in semi-automatic mode, there are 10 sec. left to switch it on after detection of movement.
- Switch-on delay: The status „dark“ is achieved after a delay, the darker it is, the shorter is this delay (max. 30 sec.).
- The switch-off delay is activated, as soon as the minimum dimming value is achieved and the current light value is over the nominal value. The switch-off delay is at 30 min.
- **Manually dimming is possible with long keypress.** After achieving the maximum/minimum, the dimming direction changes automatically (5% - 100%).
- The orientation light dims down, as soon as there is enough daylight.
- **100 h-function to extend the life span – sums up automatically the burning time of 100% luminosity at the beginning up to 100 hours – only then can lights dim.**
- Follow-up timer is re-triggered after movement.

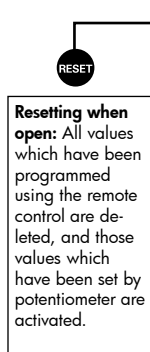
Channel 2 („Board lighting“)

- The channel 2 „CH2“ switches on and off daylight-independent.
- If the detector switches off in semi-automatic mode, there are 10 sec. left to switch it on after detection of movement.
- Follow-up timer is re-triggered after movement.

Channel 3 (HVAC - heating, ventilation, air-conditioning)

- The channel 3 „CH3“ switches on and off daylight-independent.
- A switch-on delay of 5 min is activated when follow-up time is set at 60, 90 and 120 minutes. During this delay, at least one movement has to be detected within each minute in order to activate the channel.
- Follow-up timer is re-triggered after movement.

8. Settings by remote control



Resetting when open: All values which have been programmed using the remote control are deleted, and those values which have been set by potentiometer are activated.

Unlocking device - Activation of the programming modus
Switching on DALI-channel by motion

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

Up/down: Nominal value +/- 25 Lux

Follow-up time channel 1 (DALI) and channel 2 (15 sec. - 30 min.)

Follow-up time channel 3 (HVAC) (5 - 120 min.)

Orientation lighting ON/OFF - Permanently ON/OFF

Follow-up time for orientation lighting (1 - 60 min.)

Toggle orientation lighting between 10, 20 or 30%

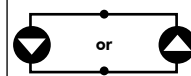
Activation/Deactivation of the 100h function

LED display ON/OFF

Semi-automatic ON/OFF for DALI-channel 1 and channel 2

Locking device - Deactivation of the programming mode

9. Key functions in closed state



Up/down: manual dimming of the lighting (analogical key function)



Activation of the test function, deactivation of the test mode: push reset button



DALI-channel ON/OFF (analogical key function)



5 sec. after pressing the "lock" button the detector can be double locked (Permanent protection), otherwise, diagnostic mode is activated for 2 minutes.



Deactivation of all timers, Deactivation of all channels

10. Key functions in double closed state



In case of deactivation of LED display, the LEDs can be re-activated for 2 minutes.



Activation of diagnostic mode for 2 minutes



Stop the two, above mentioned functions

