

Installation and Operating Instruction for B.E.G. - Photo electric switch CdS-DIM-FC

1. Product information

- For connection of up to 50 lamps
- Suitable for dimmable electronic ballasts and control modules
- Manual dimming by remote control
- Constant light control
- Luminance (brightness) set point adjustable
- Sensor and power sections in one housing
- Infrared remote control
- Dynamic delay

2. Operation

The photoelectric switch is for controlling 1-10V electronic ballasts depending on daylight.

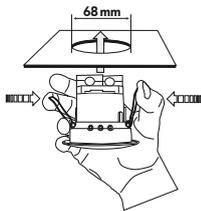
3. Safety advice

! Work on the 110-240V 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!

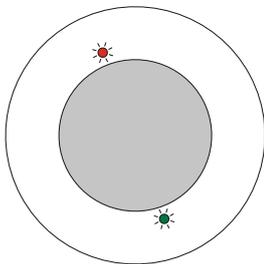
! This device is not suitable for disconnection.

4a. Mounting LUXOMAT® CdS-DIM-FC



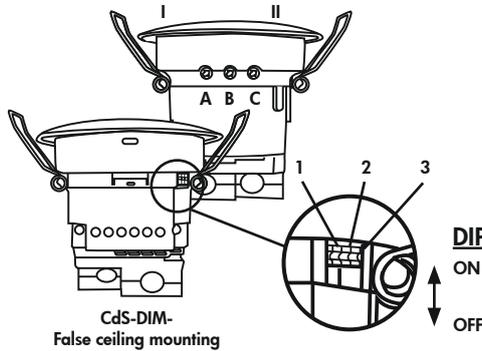
A circular opening of diameter 68 mm must be produced in the ceiling. Having connected up the cables in accordance with regulations, the detector is inserted into the opening as shown in the drawing opposite and fixed into position with the assistance of the spring clips.

4b. 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.

4c. Position DIP-Switches, LEDs and Potentiometer FC



| DIP-switch function | | |
|---------------------|---|--|
| DIP 1 | 100% ON The connected illumination is switched on at 100% and afterwards is dimmed down to the set lux value (factory setting). | 100% OFF The connected illumination is dimmed to the set lux value (soft start). |
| DIP 2 | LED ON | LED OFF |
| DIP 3 | Without function | |

Potentiometer A Lux

Potentiometer B Follow-up time

Potentiometer C Stoving time

LED I green

LED II red

The DIP switch settings are overridden using the remote control.

5. Putting into operation / Settings

Delay OFF time for light control
The time can be set infinitely variably at between 1 and 30 minutes.
Symbol **TEST**: Test operation

The ON delay time is determined automatically. The sooner the brightness decreases, the shorter the time.

The ON delay time avoids further multiple On and Off switching in the area of brightness.

Twilight-switch for light control
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-time operation
Symbol : Day- /Night-time operation

Stoving time 25 - 100h
The stoving time can be set at between 25 and 100 h in 4 steps. Activation with remote control.

6. Article / Part nr. / Accessory

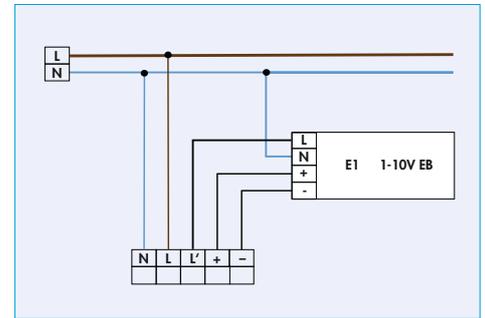
| Typ | FC |
|---------|-------|
| CdS-DIM | 92589 |

LUXOMAT® remote control:
IR-CdS (incl. wall bracket) 92577

Accessory:
BSK Ball basket guard 92199

7. Connections

Standard mode with CdS-DIM



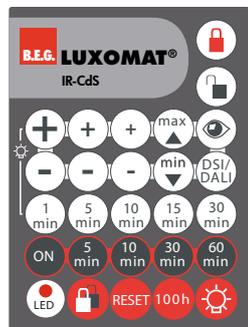
8. Technical data CdS-DIM

Sensor and power supply in one case
Power supply: 110 - 240 VAC, 50/60 Hz
Power consumption: < 1 W
Ambient temperature: -25°C to +50°C
Degree of protection/class: IP20/ II
Settings: Potentiometer or optional by remote control
Factory settings: 300 Lux, 5 min.
Light values - IR-CdS: 10 - 2000 Lux
Recommended height for mounting: 2 - 3 m
Light measurement: Mixed light, daylight + artificial light
Lux values-Potentiometer: 10 - 2000 Lux
Type of contact: NOC
Contact load: 2300 W cosφ=1 / 1150 VA cosφ=0.5, μ-Contact
DIM-Output: 1 x (1-10V) 50 EB max.
Time-settings: 1 - 30 min.
Dimensions H x Ø [mm]
CdS-DIM 76x79
Visible portion when built into ceiling: 6 mm

CE Declaration of conformity:

This product respects the directives concerning
 1. electromagnetic compatibility (2004/108/EU)
 2. low voltage (2006/95/EU)
 3. restriction of the use of certain hazardous substances in

9. Option:



IR-CdS



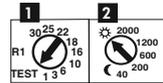
Wall bracket for remote control IR-CdS

10. Settings carried out using remote control (optional)

Remote control LUXOMAT® IR-CdS



1. Check Battery: open battery compartment by pressing the plastic springs together and removing the battery-holder.



2. Factory settings
On delivery the potentiometers are adjusted in position "TEST" and "SUN" symbol (daytime operation). With this adjustments the following regular values are active:

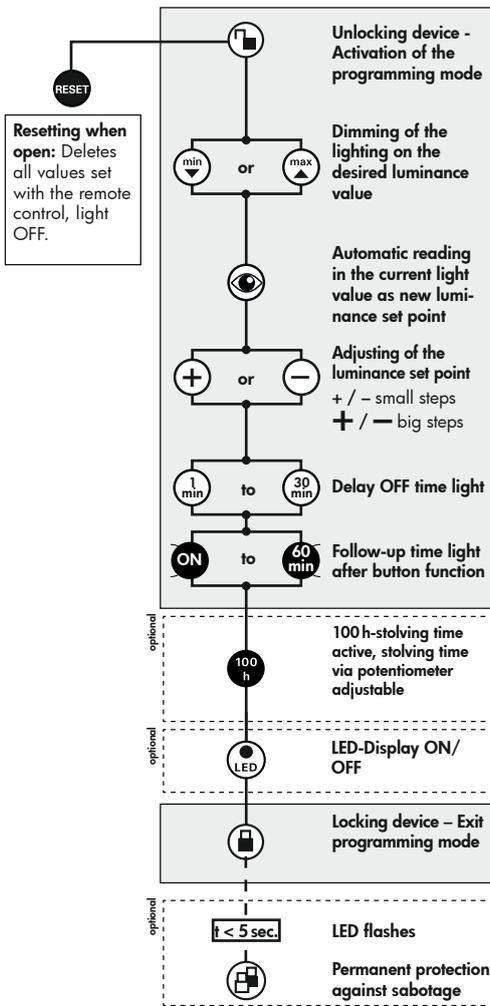


Follow-up accommodation: 5 min.
Lux value: approx. 300 Lux

Reset: The adjusting into "Factory settings" from any other position causes a "Reset" of the device. That means all parameters are resetted into factory settings (fast LED-flashing).

Caution: Settings with remote control override the potentiometer settings.

11. Settings by remote control when open



Note: This button is not applicable for CdS-DIM

12. Description of the key functions

- Lock device
- Dimming the lights to the desired brightness value
- Set brightness value is saved
- 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
 2. Apply current for 31 – 59 seconds
 3. Switch of the current again
 4. Apply current
 5. Open detector
- Light on/off when closed
The light will remain switched on/off for as long as the follow-up time after button function is adjusted via the IR-CdS. Permanent light by pushing the ON-button. The follow-up time can be set back by pushing the RESET-button.
- The time can be reset with the RESET button.

WE RECOMMEND THAT BEFORE DIMMING OF THE CONNECTED LIGHTS A 100 h 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.

13. LED function indicators

| LED function indicators | | |
|---|--|------------------------------|
| Process | Standard mode | Double-locked |
| Initialisation time unprogrammed | red flashes | |
| Initialisation time programmed | red flashes quickly | green flashes quickly |
| Too bright detected | green flashes 2x each second | green flashes 2x each second |
| Too bright / too dark / undefined in opened state | green flashes very quickly | green flashes very quickly |
| IR signal valid received | red shines 3 sec. | green shines 3 sec. |
| IR signal invalid received | red shines 0,5 sec. | green shines 0,5 sec. |
| Stolving phase active | red permanently on | red permanently on |
| Delay time switching-on active | red flashes quickly | red flashes quickly |
| Manuel switching / dimming | red flashes 2x each second | red flashes 2x each second |
| Default (Set Potentiometer on Sun and Test) | red and green lightning successively (10 sec. after setting the Potentiometer) | |