# B.E.G. LUXOMAT® CdS-DALI/DSI

# Installation and Operating Instruction for **B.E.G.** - Photocells CdS-DALI/DSI-SM/-FC

# 1a. Features

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

2c. Self test cycle

ready for operation.

# 1b. Mounting preparations Work on the 230 V mains supply may only be carried out by quali

professionals or by instructed

sons under the direction and

supervision of aualified skilled elec-

trical personnel in accordance with

Disconnect supply before installing!

electrotechnical regulations.

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# 2a. Mounting LUXOMAT® CdS-DALI/DSI-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 coverring (D) anticlockwise through approximately  $5^\circ$  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.

# 2b. Mounting LUXOMAT® CdS-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 opposite and fixed into position with the assistance of the spring clips.

2d. Position DIP-Switches, LEDs and Potentiometer SM 2e. Position DIP-Switches, LEDs and Potentiometer FC



# 3. 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: 5 min.

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 💥: 300 Lux



# Stoving time 25 - 100 h

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

4. 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. IMPORTANT

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

# Caution:

Settings with remote control override the potentiometer settings.



5. Option:





Wall bracket for remote control IR-CdS



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Туре		SM	FC
CdS-DALI/DSI		92563	92562
LUXOMAT® remote control: IR-CdS (incl. wall bracket)			92577
Accessory: BSK Ball basket guard Wall bracket for remote contro SM-Socket IP54	ol as replacem	nent	92199 92100 92161
11. Technical data Cd	S-DALI/D	SI	
Sensor and power supply in Power supply: Power consumption: Ambient temperature: Degree of protection/class:	n one case 230 V~ ±10 < 1W -25°C to +5 SM/FC IP2	0% 50°C :0, SM wit	h accessory
Recommended height for mo Settings: Light values - IR-CdS: Light measurement: Lux values-Potentiometer:	IP54 / II punting: 2 - 3 locally and 10 - 20001 Mixed light, 10 - 20001	m by remote Lux , daylight + Lux	e control ⊦ artificial lig
• Switch contact Type of contact: Contact load:	NOC 2300W co 1150VA co	νsφ=1 / psφ=0,5, μ	ı-Contact
• DALI-Output digital BUS control wire, 2-c	ore, no polar I	rity (broade	cast only)
electronic ballasts:	up to 50 digital electronic dimmable ballasts as a group.		
Time-settings: Dimensions H x Ø [mm] CdS-DALI/DSI	1 - 30 min. SM 48x 102	FC 75 x 80	

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

# 7. Description of the key functions

Lock device ( )

Dimming the lights to the desired brightness value

Set brightness value is saved



min max ▼

 $( \bigcirc )$ 

**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:

- Switch off the current
  Apply current for 31 59 seconds
  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.

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The time can be reset with the RESET button.

8. Wiring diagram

# Standard mode with CdS-DALI/DSI







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.

# 12. LED-functional 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	
Switching DALI/DSI DSI active	red shines 3 sec.		
Switching DALI/DSI DALI active	green shines 3 sec.		
IR signal valid received	red shines 3 sec.	green shines 3sec.	
IR signal invalid received	red shines 0,5 sec.	green shines 0,5sec.	
Stolving phase active	red permanently on	red perma- nently 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 succes- sively (10 sec. after setting the Potentiometer)		