

## Instructions for installing and using the CdS-R twilight switch

### 1. Installation preparations



#### Twilight switch for installation in existing lamps.

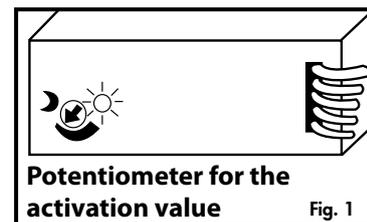
Twilight switch with switching relay for automatically switching fluorescent, halogen and energy-saving lamps.

- Suitable for use in junction boxes
- Potentiometer for setting the light value at which the lamp is switched on
- Completely ready for connecting to a lamp

Retrofitting with the CdS-R twilight switch is the quick and easy way of converting existing outdoor lamps on buildings into automatic lamps. The lamp will then be automatically switched on in the evening and switched off again in the morning. The light value for the activation time may be set with a potentiometer.

#### How the B.E.G. LUXOMAT® CdS-R works

A light sensor monitors ambient brightness. The twilight switch will automatically switch the lamp on when the brightness falls below the value previously set with the potentiometer (Fig. 1). The lamp will then be automatically switched off again when the ambient brightness exceeds a specific light value.



**Potentiometer for the activation value**

Fig. 1



Twilight value approx. 2 - 100 Lux

### 2. Installation

Drill a hole (8.5 mm diameter) into the wall of the casing. Remove the adhesive tape's protective film and fit the twilight switch inside the part of the lamp that is protected from water (at the greatest possible distance to the bulb) or fit it in a junction box. The cable exit opening must face downwards.

#### Fitting on bright walls (Fig. 2).

Fit, adjust and securely screw on the light sensor, cover (round), counter nut and seal depending on the underground's brightness and distance to the source of light.

#### Fitting on dark walls (Fig. 3).

Fit, adjust and securely screw on the light sensor, cover (rectangular), counter nut and seal depending on the underground's brightness and distance to the source of light.

Turn the rectangular cover in such a way that the light sensor cannot be affected by its own light but is exposed to sufficient daylight. Align the cover's opening with the rising sun as far as possible.

#### Important:

Only bulbs with a maximum of 60 watts should be used when the LUXOMAT® CdS-R is fitted in enclosed lamps! Stronger bulbs may cause heat to build up to over +50°C inside the lamp, which would destroy the twilight switch. The maximum ambient temperature for the CdS-R is +50°C.

Always install the light sensor and device underneath the lamp socket (Fig. 4) to prevent it from being affected by its own light and heat from the bulb.

Always align the light sensor in the direction from where most light comes from (Fig. 6).

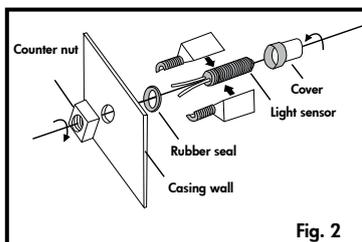


Fig. 2

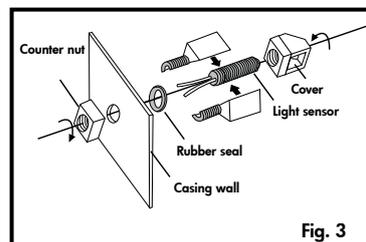


Fig. 3

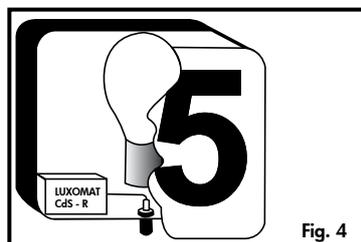


Fig. 4

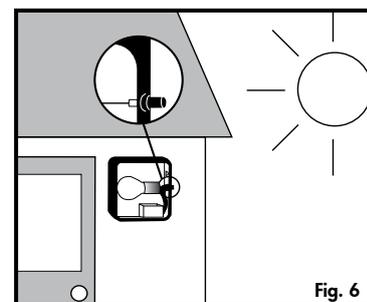


Fig. 6

### 3. Article / Art. No. / accessories

Article	Art. No.
LUXOMAT® CdS-R	92365

### 4. Technical data

**Voltage:** 230 V ~ ±10 %  
**Power consumption:** < 0,5 W  
**Ambient temperature:** -15°C - +50°C  
**Protective type / protective class:**  
 Housing IP20 / II / CE  
 Sensor IP54 / II / CE  
**Light values:** 2 - 100 Lux  
**Settings:** Potentiometer

#### • Channel 1 for light switch

**Contact type:** Closer  
**Contact load:** 1000 W cosφ = 1 /  
 350 VA cosφ = 0,4

**For bulb, fluorescent and halogen lamps**  
 For energy-saving lamps up to max. 11 watts  
**Switch on/off delay approx.** 10-15 sec.  
**Length of the connecting wires between light sensor and electronic components:**  
 approx. 15 cm, may be extended to 15 m  
**Suitable for installation in lamps and junction boxes**

CE Declaration of conformity: The product complies with Low-Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC.

### 5. Circuit diagram

Connect the twilight switch as shown in the circuit diagram (Fig. 5).

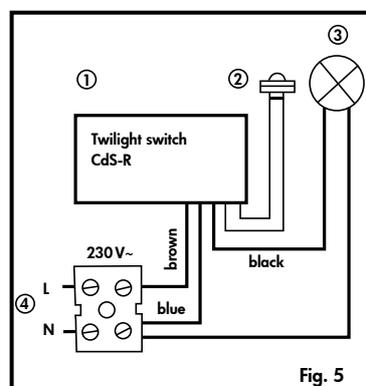


Fig. 5

- 1) Twilight switch
- 2) Photo cell/light sensor
- 3) Lamp
- 4) Mains voltage