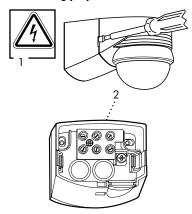
B.E.G. LUXOMAT® LC-plus 280

Operating and mounting instructions for motion detector LUXOMAT® LC-plus 280

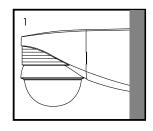
1. Mounting preparations

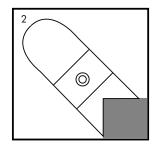


- 1) Caution: have all work involving the 230 V mains supply carried out by a qualified elec-trician! Before starting disconnect the mains! Please be aware, that the LUXOMAT® LC-plus 280 is not suitable as an intrusion detector, since it is not equipped with a tamper contact.
- Socket base corner mounting

Important: The LUXOMAT® LC-plus 280 has to be mounted in such a way, that the adjusting elements/rotary regulators are always pointed downward.

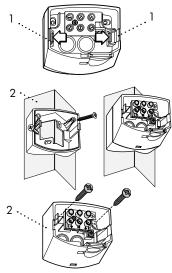
2. Mounting types





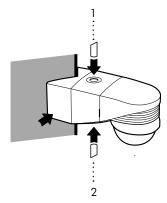
- Wall mounting
- Outside corner mountable with plug-in socket (included)

3. Plug-in socket



- 1) Press here for separation of terminal case and plug-in socket
- Mount the plug-in socket with two screws and the enclosed seal rings on a firm base (Pay attention to inserting of the connection cable, see point 4)

4. Inserting of the connection cable



- Connection cable from top down
- Connection cable from below Terminal markings
- (Wiring diagrams see point 16)



5. Putting into operation / Settings

After mounting and connecting the 230 VAC supply voltage, the LED flashed for 1 min. to show a self testing unit. Then the unit is ready for operation and the settings can be made manually or with remote control (see point 11).



Follow-up time







LED Functional display Slow flashing: EEPROM empty

Fast flashing: EEPROM is written During the self-testing cycle, the LUXOMAT® LC-plus 280 will only react to commands "RESET" and "LIGHT OFF

Test operation, 15 sec. ... 16 min., Pulse operation (Test operation: range testing, detector switches on/off the lighting at any recognized movement)

Night operation...Dusk...Day operation (Day operation: light sensor inactive, switching at any brightness value)

6. Factory settings



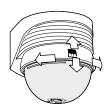


On delivery the potentiometers are adjusted in position "TEST" and "SUN" symbol (daytime operation). With this adjustments the following regular values are active:

Follow-up accommodation: 3 min. Lux value: approx. 20 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).

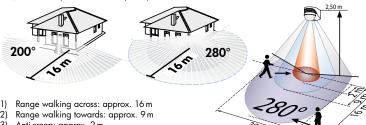
7. Sensor head optics



By swinging the sensor head horizontally (approx. ±45°) and vertically (approx. ±15°) the detection area can be changed.

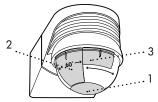
8. Sensitivity adjustment (mounting height 2.50 m); mounting height min. = 2.00 m

(Sensor head justified horizontally, see point 7)



- Anti-creep: approx. 2 m

9. Exclude sources of interference



- Blind for limiting creep-under protection and backward detection
- Blinds for reduction of far-away and close-by areas by 60° each
- Blinds for reduction of far-away areas by

11. Settings of remote control





1) LUXOMAT® IR-LC-plus (accessory, see point 20) LUXOMAT® IR-LCmini (accessory, see point 20)

Caution: Settings with remote control subscribe the settings by courtesy of potentiometers (see point 5) (for description see point 12).

10. Mounting place

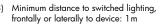


If possible mount unit on a safe place (wall or ceiling mount).





Influence of weather reduces the lifetime of the unit. Please take care to mount correctly.



Never mount the connected lights below the motion detector!

12. Functions of LUXOMAT® IR-LC-plus

Unlocking device

Lux value: Day operation ۶ light sensor inactive, switching at any brightness value

Lux value: approx. 100 Lux Onset of dusk

Lux value: approx. 25 Lux Advanced dusk

> Lux value: approx. 2 Lux Darkness

Automatic reading in the current light value Individual light value 2 - 2500 Lux

Follow-up time 15 sec. up to 16 min.

Impulsfunction 1) 1 sec. ON, 9 sec. OFF

Switching ON/OFF

Walk test

Alarm function Switching ON/OFF, (ON for 30 sec., OFF for 1 sec., then normal operation)

Vacation- and comfort function Switching ON/OFF On: By achieving the Lux value 1 hour daylight independent of movements, then normal operation (switching time changeable, see point 15)

Sensitivity adjustment ~ +15%, ~ -30%

> Erasing of all of the values set using the remote control. (Then potentiometer-settings active,

Lock device (by pressing the button shortly) Double lock devise (sabotage

protection) Keep the button pressed while LEDs flash. As soon as the LEDs are on permanently, the double-locking is

Test operation Switches the light ON/OFF when movement is detected.

Light ON for $12h^{2)}$ / Light OFF for 12hBy pressing once the party button, the light is switched on for a period of 12 hours. By pressing the party button twice, the light remains switched off until the next evening (see point 14).

Light OFF Switches the light ON again when movement is detected.

Light OFF, then automatic mode

1) As soon as the function "Chime/ Impulse" is activated, the following functions will be blocked: Alarm function, Light ON for 12 hrs / Light OFF for 12 hrs, Vacation- and comfort function

2) Light ON for 12 h can also be activated by disconnection mains twice within 2 - 4 sec.

13. Functions of LUXOMAT® IR-LCmini

Test operationSwitches the light ON/OFF when movement is detected.

Light ON for 12 h / Light OFF for 12 h By pressing once the party button, the light is switched on for a period of 12 hours. By pressing the party button twice, the light remains switched off until the next evening (see point 14).

Light OFF Switches the light ON again when movement is detected

Vacation- and comfort function Switching ON/OFF On: By achieving the Lux value 1 hour daylight independent of movements, then normal operation (switching time changeable, see point 15)

Reset

14. Activation "Light OFF"

Because of the sabotage protection the function "Light off" is deactivated in the factory. When required it must be activated again:

Light OFF, then automatic mode

Mains to be disconnected

Mains to be connected - a self test cycle of 60 sec. starts (the LED is flashing, see point 5).

Activation/deactivation of the function "Light Off" can be done only during the self testing

For activation of the function "Light OFF" the button "Light OFF" must be pressed during the self testing cycle (the LED will flash quickly).

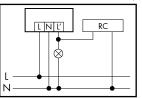
For deactivation "Light OFF" the button "Reset" must be pressed <u>during the self</u> <u>testing cycle</u> (the LED will flash slowly).

Caution: The implementation of "Reset" with potentiometers (see point 6) or with remote control (see point 12) does not influence the activation/ deactivation of the function "Light OFF"

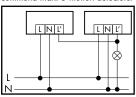
16. Wiring diagrams Standard operation

(with optional arc extinctions kit)

Optional extension for switching of parallel inductors, rocker switches, fluorescent lamps etc.

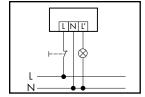


Terminal connection for parallel operation We recommend max. 5 motion detectors

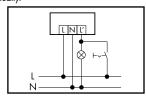


Permanent light operation with external push button

Additionally manuel switching is possible. The NC-contact is to press for approx. 0.5 - 2 sec.



Permanent light operation with external switch Switching is manually possible (permanent light operation). Caution: Light has to switched off manually.



18. Technical data

230 V~ ±10% Power supply: 2000 W, cosφ = 1Switching power: $1000 \, VA$, $cos \phi = 0.5$ Range:

approx. 16 m

Time settings: Impuls, 15 sec. - 16 min. Photo electric switch: approx. 2 - 2500 Lux Factory settings: follow-up accommodation

3 min., photo electric switch approx. 20 Lux 280°, 360° anti-creep protection

Degree of protection/class:

Detection area:

L 110 x W 68 x H 78 mm Dimensions: UV-stabilised Polycarbonate Mounting types: wall and outside corner mountable with included

IP44 / II

plua-in socket

ection cable: Inserting of the conn

once from top down and from below

Range adjustment:

> Swivelling of the sensor head: vertically (approx. ±15°), horizontally (approx. ±45°) With blank out clips (included)

Electrical adjustments: in traditional manner with potentiometers valid for time and Lux value only, with infrared remote control.

19. Article / Part nr. / Accessory

LUXOMAT® Motion detector: LC-plus 280

91008 91018 brown. 91028 black: 91048 silver:

LUXOMAT® Remote control:

92095 IR-LC-plus (incl. wall bracket) IR-LCmini 92093

Accessory: Arc extinction kit

10880

15. Vacation- and comfort function

The duration of the on-period can be adjusted:

- "Unlock" unit with remote control
- The button "Co" to be operated. The LED flashes for 10 sec.
- During these 10 seconds the duration of the light-on period can be selected: from e.g. 15 sec. = 15 min. up to 16 min. = 16 hrs.
- The unit to be locked with the button "Lock".
- "Vacancy/Comfort" is activ now (deactivation see point 12)

Caution: If the "Vacation- and comfort function" is active or with lower deviation of the Lux value the LC-plus turns on the light again after a time delay of 60 sec.

17. Dimensions (mm)

