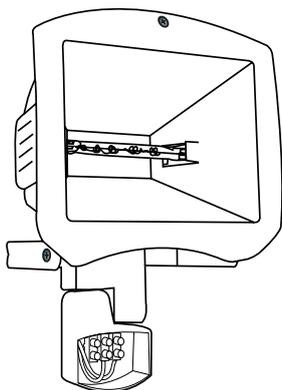# B.E.G. LUXOMAT® AL5-LC

Mounting instructions - Floodlight AL5-LC 500

LUXOMAT® AL5-LC 500

1. Function

The 500 W floodlight is supplied with a plug-in socket only for the **LUXOMAT®** LC-Click-N or LC-plus series. By means of this any combination of 140°, 200° or 280° version can be achieved with a minimum of stockkeeping.

You can get **LUXOMAT®** LC-Click-N motion detector with 2 different detection areas: 140° or 200°.

LUXOMAT® LC-plus 280 comes with a detection area of 280°. So you can attach the best motion detector to the floodlight to cover every field of application.

2. Technical data

Power-supply:	230 V~ ±10 %
Lamp:	R7 s (118 mm) max. 500 W
Protection:	IP44 / I / C€
Housing:	made of die-cast aluminium
Ambient temperature:	-25°C to +50°C
Dimensions:	H 160 x W 184 x D 290 mm

Description	Colour	Part.-Nr.
AL5-LC	white	92405
AL5-LC	black	92403

Accessory

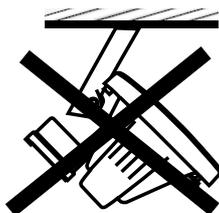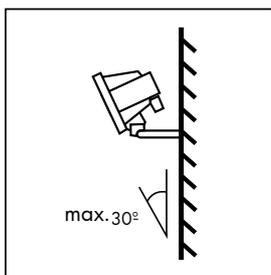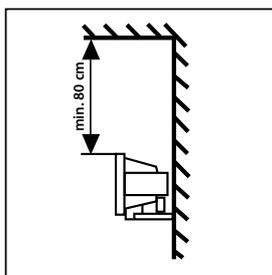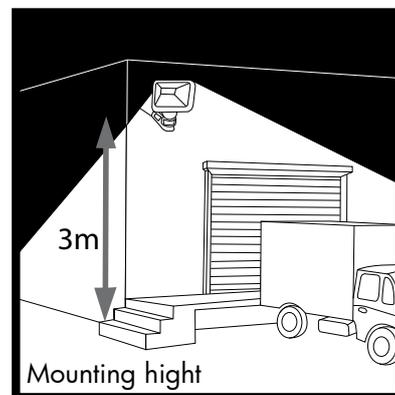| Fluo lamp | 33316 |
| LC-CLick-N 140 / 200 | |
| LC-plus 280 | |

3. The right mounting place

The floodlight must be mounted on a solid wall, protected against rain, wind and sunradiation.

The recommended mounting height is 3 m. The distance between floodlight and illuminated surface must be a minimum of at least 1 m. Also the distance to the street or to a neighbouring house should be considered before fixing the unit.

When the walking direction is lateral to the detection field of the motion detector, an optimum functioning of the motion detector will be achieved. Moving frontally towards the motion detector gives a much shorter range.

(See also **LUXOMAT®** LC-Click-N and LC-plus 280 manual)

Lateral mounting to walking direction

3m

Mounting hight

min. 80 cm

max. 30°

4. Installation

Before installation the mains to be cut off.

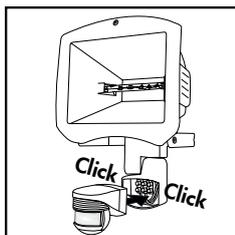**The installation can only be done by an electrician.**

Two holes for 6 mm pegs to be drilled in a distance of 50 mm. The enclosed hexagon screws to be screwed in and now hang on the floodlight.

(Do not forget the washers!)

Open the junction box by unfastening the 4 screws of the cover. In order to get the right protection against wateringress insert the cable through the cable inlet and connect the wires accordingly to schematic. Fasten cover again.
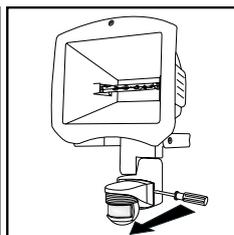
Adjust floodlight for the right detection and illumination field and tighten the bracket hexagon screws.

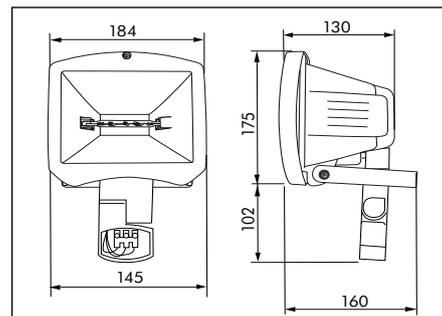(See also **LUXOMAT®** motion detector manual).

Click Click

Pluging-in
For plugging-in to produce with the hand the right counter pressure.

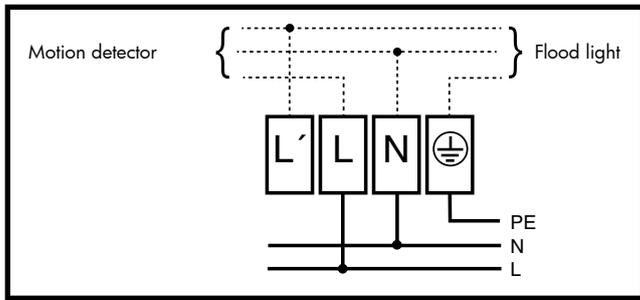**Unplugging**
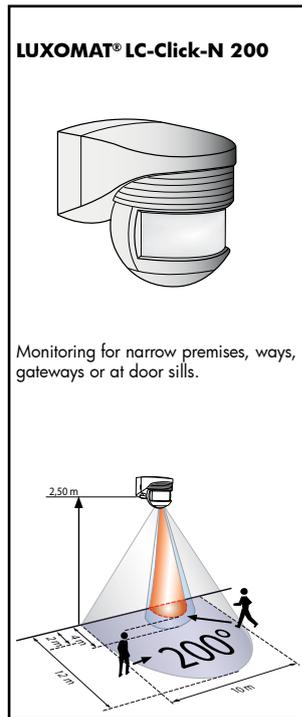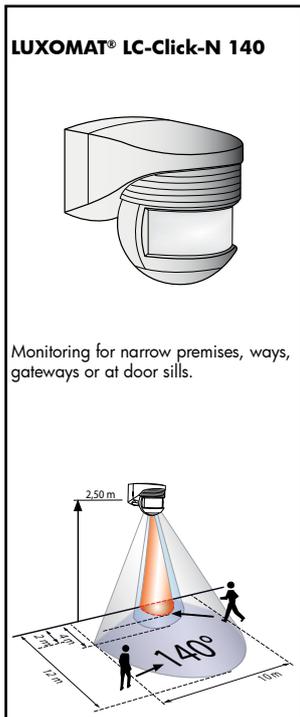To remove the motion detector from the socket to use a small screwdriver as shown in picture.

5. Dimensions (mm)

184

130

175

102

145

160

6. Wiring diagram

Motion detector { ⊣ ⊢ } Flood light

L' · L · N · ⏚

PE
N
L

7. Detection area at 2.50 m mounting hight

LUXOMAT® LC-Click-N 140

Monitoring for narrow premises, ways, gateways or at door sills.

2,50 m

140°

LUXOMAT® LC-Click-N 200

Monitoring for narrow premises, ways, gateways or at door sills.

2,50 m

200°

LUXOMAT® LC-plus 280

Monitoring two sides of a building, warehouses, parking lots.

2,50 m

280°

8. Troubleshooting

What should be done if ...	Possible problems	Solutions
1. The lamp being controlled by **LUXOMAT®** does not switch on.	- The halogen lamp is defective. - The mains voltage is not present. - The twilight value switch-on threshold is not correctly adjusted. - Incorrect adjustment of the detection zone - The detector is installed too high. - The lenses in the sensor section are dirty.	- Replace the halogen lamp. - Check the connection and the fuses. - Correct the switch-on threshold of the twilight switch using the rotary control. - Change the detection zone. - Change the installation height (maximum 3 meters). - Clean the sensor lenses.
2. The lamp turns on too late.	- The detector is installed too high. - People approach the sensor directly.	- Change the installation height (maximum 3 meters). - Install the sensor in such a way that the detection zone is intersected.
3. The lamps remain permanently switched-on.	- Permanent movement of a heat source in the detection zone - A switch has been installed parallel to the sensor in order to enable manual switching.	- Remove the heat source from the detection zone. Check for correct functioning by covering the lens (the lamp must then switch-off). - Put the switch in the "Sensor" position in order to prevent manual switch-on.
4. Unwanted switching-on of the light	- Permanent movement of heat sources in the detection zone (trees, bushes being moved by the wind, the presence of cats or dogs in the detection zone) - Direct sunshine on the sensor lens - The sensor is placed directly over an air exhaust.	- Change the range of the sensor by changing the inclination or by attaching the shades to the lens. - Protect the lens from direct sunshine. - Install the sensor at a different location.
5. The detector range is too small.	- The sensor installation height is not optimal (too high or too low) - People directly approach the detector. - Hillside location	- Change the installation height (2.50 meters). - Install the sensor in such a way that the detectionzone is intersected. - Change the detector inclination.
6. Does not detect vehicles	- The vehicle engine is not yet warm (weak heat source)	

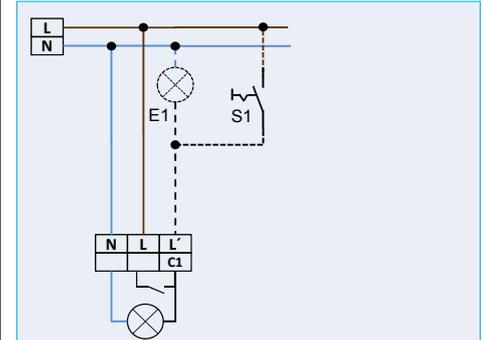## 9. Mounting or replacement of the halogen lamps

Always verify that the mains voltage has been isolated whenever the halogen lamps need to be replaced.

Caution: The floodlight can reach very high temperatures!

- Allow the lamp and the enclosure to cool down.
- Remove the fastening screw from the enclosure of the floodlight and open the enclosure.
- Grasp the defective halogen lamp tightly and remove it from its bracket.
- Do not touch the replacement lamps with your hands.
- Place the halogen lamp into the bracket.
- Close the enclosure and be sure that the sealing ring is properly seated.
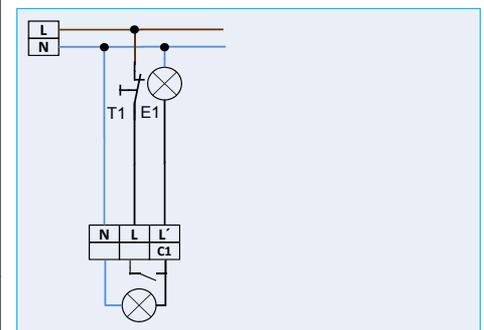- Close the enclosure with the fastening screws.

10 Wiring diagrams

Standard mode with 1-channel motion detector external
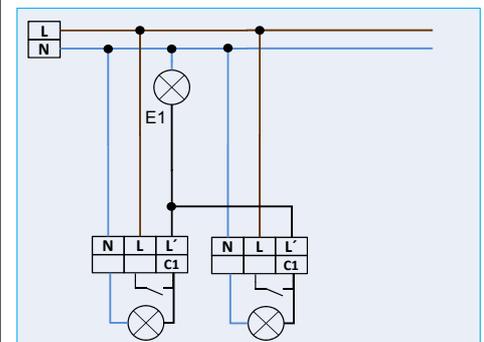

S1 = switch for permanent light

Standard mode with 1-channel motion detector with NC pushbutton

T1 = NC button
Manual switching additionally possible (press opener approx. 2 sec.).
The position of the potentiometers should not be on "test" or "sun". If so, the pre-set time and safety values get lost.

Standard mode with 1-channel motion detector

LC-plus next max. 5 parallel