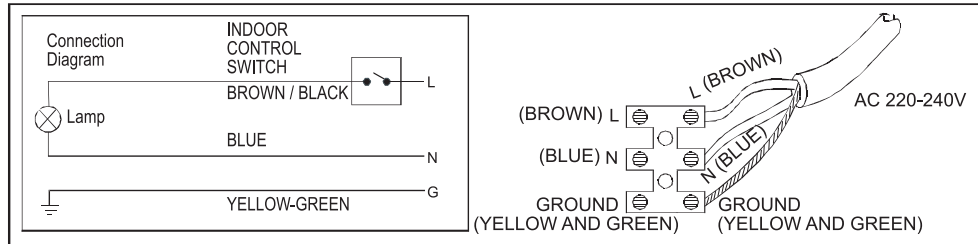


## Connection to the power supply:

- Note: This unit must be installed according to local Wiring Regulations and Code of Practice.
- Ensure the supply is disconnected at the distribution board before beginning with the electrical wiring.
- Study the wiring diagram below before making any electrical connections. Incorrect wiring of the unit could destroy the unit.
- Connect the ground wire (yellow-green) to the ground terminal.
- Connect brown or black wire from the supply circuit (incoming active/phase) to terminal (L).
- Connect blue wire from the supply circuit (neutrals) to terminal (N).



Note: Power cord sep.: 2 x HO5RN-F 3C/2C 1.5mm<sup>2</sup> max. • 2 x HO5RR-F 3C/2C 1.5mm<sup>2</sup> max.

## Initial set up and operation:

- After connection to mains power, 60 seconds is required to warm up. The lighting last approximately 60 seconds.
- Walk in front of the detector until the light comes up. This checks the operation of the detector and the field of view. Under test mode Red LED and lighting will come on for 3 seconds when each movement is detected.
- Repeat Step 2 and adjust the angle of the dome lens until the optimum field of view is achieved.
- Turn the Time and Ambient Light (LUX) control to the desired positions.
- The detector is now in Auto Mode and will operate according to the preset time and ambient light (LUX) adjustment. LED indicator will keep flashing at stand-by-mode. Once activated, LED indicator and lighting will remain on until timer out.
- Lights Permanently Off: Turn the power switch off or unplug the AC plug.

## Trouble Shooting:

### 1. Unit will not function at all/Lights won't come on

- Check wiring to make sure that you have correct AC power at the unit.
- Check the wiring from the unit to the source of power to make sure you have wired the unit correctly
- Check the ambient light control to see if it was at your desired level.

### 2. Detector clicks but does not work

- Check if LEDs are broken.

### 3. Lights go on and off quickly

- Ensure light and heat are not being reflected onto the detector. Check for white or reflective surfaces that may be causing the problem.
- Note the detector is more sensitive in cold weather.

### 4. Lights stay on

- Recheck the wiring diagram.
- Adjust time to minimum, and ensure unit is firmly fixed to a solid object with no moving branches etc. in the field view.
- Ensure detector is not being activated by stray moving heat sources such as heating outlets, car etc.

### 5. Detector goes on under windy and rainy condition

- Adverse weather conditions and temperature changes can result in unwanted activations.
- This can be minimized by mounting in a protected location.

### 6. Maintenance and repair

- Do not attempt to repair this unit yourself because this can lead to guarantee invalidity or personal injury.
- Clean detector lens and outside casing with damp cloth.



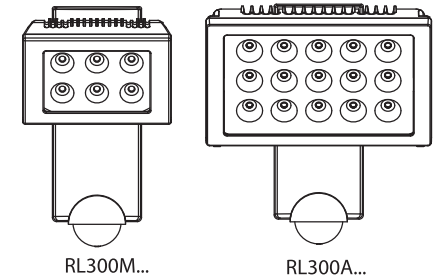
**GROTHE**  
an urmet company

# RL300 SERIES PIR MOTION SENSOR LED LIGHT

Grothe GmbH • Löhestr.22 • D-53773 Hennef • Tel: +49 (0) 22 42 - 88 90 - 0 • Fax: (0) 22 42 - 88 90 - 36 • info@grothe.de • www.grothe.de

## Specifications:

- Power: 220-240V / 50Hz
- Lighting: RL300M...: 6 HI-POWER LEDs  
RL300A...: 15 HI-POWER LEDs
- Range of detection: Adjustable from 6m to 12m
- Angle of detection: 240°
- Timer: Adjustable from 3 sec. To 15 min.
- Lux control: Adjustable „Light Level“ sensing from 5 Lux to 1000 Lux.



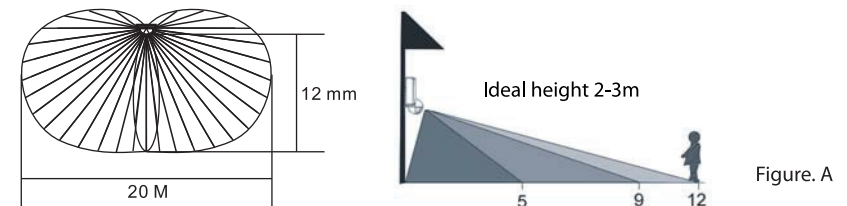
## Adjustments:

- TIME:** (⌚) The motion sensor light has an adjustable TIME control from 3 sec. 15 sec. 30 sec. 1 min. 3 min. 5 min. 10 min. to 15 min. Timer starts working after the last detected movement. While there is movement in the detection area, the lighting will remain on and the time will keep resetting (Figure B).

### 2. SENS:

#### Field of view:

The sensor has a range of detection of 12m at 20°C, adjustable from 6m to 12m (Figure C). The sensor head can be rotated left and right 90° horizontally. The angle of detection is 240°. The recommended installation height is 2.2m. Please refer to figure below (Figure A).



- LUX:** The adjustment controls the sensitivity to the background light level at which the unit will operate automatically. It may be set to any level between 5 Lux and full daylight. The unit will operate when it senses movement and the ambient light is at or below the set level (Figure D).

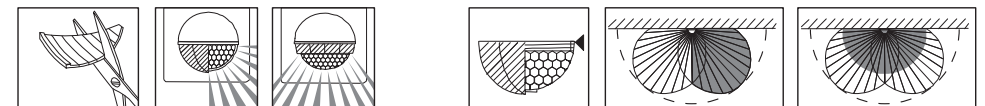
**Test:** If the arrow is pointing to „TEST“ the light value is deactivated.

When the detector is activated by movement, the red LED and the lighting remain ON for 3 sec.



### 4. Blanking inserts:

- Undesired areas and interference sources can be blanked out of the detecting range by fitting the supplied blanking inserts.
- Trim blanking inserts with scissors either horizontally or vertically until the desired result is obtained.
- Install the blanking inserts by pushing it into slot around the sensor head. The position can be adjusted by sliding it around the slot. Please refer to figures below.



### 5. Lamp head:

A. The lamp head can be rotated by 180 degrees as shown in the diagram below, and also turned left and right or to face up and down.

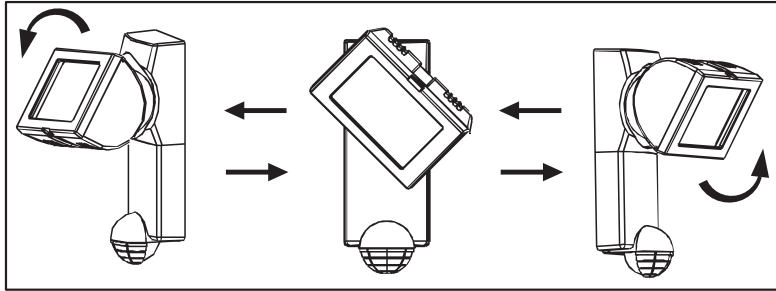


Figure. E

### Installation:

**Warning:** This equipment must be installed only by a qualified electrician. Installation must follow local building codes as well as the instruction contained this manual. Turn off all power at circuit breaker or fuse box, to make sure power is off before installation. If you have any doubts about the installation procedure, please ask a qualified mechanican.

1. The unit is to be mounted vertically on a wall (Figure F,G), protected from weather.
2. Open the front cover of sensor (Figure F), unscrew the inner plastic cover, fix the sensor through the breakout (Figure G), Ensure the sensor is screwed securely to the wall without movement.
3. DO NOT place the sensor light close to any surface, as the light can get very hot. Keep the light at least 80mm away from walls to ensure sufficient air gap.
4. Point the sensor towards the area to be covered.

**WARNING: HOT SURFACE, DO NOT TOUCH.**

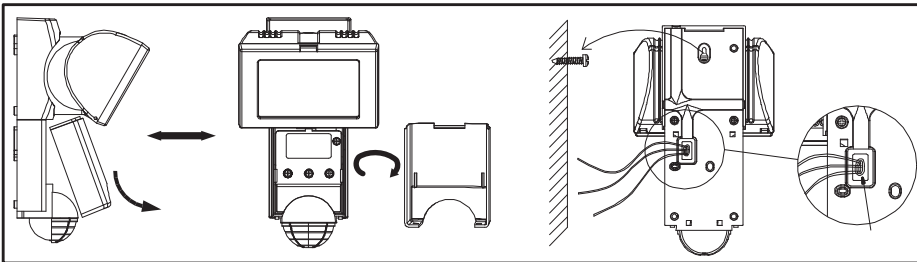


Figure. F

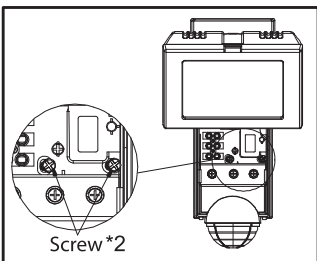


Figure. G

### Installation hints:

To ensure the best performance from your RL300 Series, refer to the following figures to help choose the ideal location.

