

# GR-55 INFRARED MOVEMENT DETECTOR



## TECHNICAL SPECIFICATIONS

Main voltage	220 - 240V AC / 50 -60 Hz
Max.consumption	5VA
Detection angle	100°
Detection range	max. 12m at 20°C
Maximum output	1000W resistive load or 1/10 Hp inductive load
Degrees of cover protection	IP 54
Produced in accordance with	EN 60669-1, EN 60669-2-1, EN 50428
Operation temperature range	0 to 60 °C
Humidity	Up to 95% relative humidity
Constructional materials	ABS
Dimensions	100x65x55mm
Weight	100 gr
Guarantee	2 years

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### GENERAL

The GR-55 model detects any movement at a distance of 12 meters and an angle of 100 degrees, giving an output of 230V. It can be used to turn on the lights of house entrances, shop display lights, to open electrically operated doors or to switch or an appliances. The unit is activated by detecting the infrared radiation transmitted by moving objects. It is designed and manufactured in a way that every user can adjust it to his/her own needs.

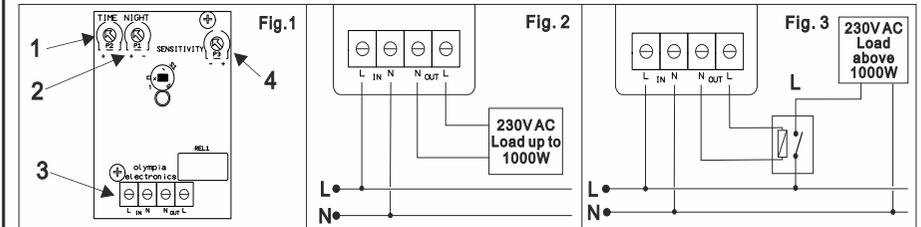
### BASIC PART IDENTIFICATION:

Figure 1 shows the basic parts of GR-55 as described below.

- 1. Output time adjustment.** This adjuster is used to set the time duration that the load will stay active when the detector has stopped detecting movement. The time can be adjusted from 30sec. to 5min.
- 2. Luminosity adjustment.** With this adjuster we can adjust the light level that the detector will start to respond to movement. Day-night operation can be achieved if we turn the adjuster fully toward to the (-) sign while complete darkness operation can be achieved if we turn it fully toward to the (+) sign. Any light level between day and night can be achieved by setting the adjuster accordingly.
- 3. Connection terminal blocks.** These terminal blocks are used to connect the mains power supply and the load to the detector. Figure 2 shows the connections that must be done in order for the device to operate.
- 4. Sensitivity adjustment.** It is used to adjust the sensitivity of movement and the detection range of the detector. Sensitivity is increased by turning the adjuster toward to the (+) sign and decreased by turning it toward to the (-) sign.

### CONNECTIONS AND MOUNTING:

Figures 2 and 3 show 2 methods of connecting the device to the mains power supply and to the loads. Figure 2 shows the connections needed when the load does not exceed the 1000W while figure 3 shows the connections needed when the load exceeds the 1000W. In order to achieve the best results and stability in detection range the device must be mounted at a height of about 2-2.5m and away from direct sunlight, air drafts and if mounted outdoors it must be protected against rain. The swivel base that accompanies the detector, can be used to mount the detector in such a way that the device can be tilted in various directions in order to achieve a better coverage area.



### WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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