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Mod. **Sensor-140**
Sensor-200



User manual

Movement detectors

Read all instructions carefully

- The **Sensor-140** and **Sensor-200** proximity switches are electronic switching devices containing micro-disconnection (μ) according to EN 60669-2-1. The output circuit is activated when a heat source moves in front of the device and is deactivated when no movement is intercepted, after a settable period of elapsed time.

SAFETY WARNINGS

During installation and operation of the instrument, comply with the following instructions:

- The instrument must be installed by a skilled person, in strict compliance with the connection diagrams
- Do not power on or connect the instrument if any part of it is damaged
- In the building where the instrument is to be installed, there must be a switch and a device for protection from overloads
- Before touching the connector terminals make sure that the wires to be connected or already connected to the instrument are not live.

Code	Model	Description
VE212700	Sensor-140	Movement detector 140°
VE213500	Sensor-200	Movement detector 200°

TECHNICAL CHARACTERISTICS

- Power supply: 230V AC 50Hz
- Beaking capacity: 5A 250V AC (resistive load)
- Maximum recommended loads:
 - Incandescent light bulbs: 1000W
 - Non-compensated fluorescent: 500W
 - Compensated fluorescent: 250W
 - Halogen (230V AC): 1000W
 - Low consumption bulbs: 200W
- Consumption: 6VA (1W)
- Range of brightness: 5-30-2000 lux
- Intervention time: from 3 seconds to 30 minutes (approximate)
- Angle of detection:
 - Sensor-140: 140°
 - Sensor-200: 200°
- Range of detection:
 - frontal 12m at 20°C
 - lateral 8m at 20°C
- Operating temperature: -20 °C ÷ +40 °C
- Protection degree: IP55
- Insulation: class II

INSTALLATION

- The device must be installed far from inductive loads (motors, transformers, telephone antennas, transformer plants, industrial machinery, etc.) as especially strong magnetic fields may alter operation. The device must also be protected from rain and sunlight. It must not be placed near lights, near devices that are subject to temperature changes (heating, air conditioning). It must be located far from highly reflective surfaces. Remove the cover by loosening the screw at the bottom. Fasten the base cover at the point on the wall where you want to install it, at a height of 2-3 metres. The direction of movement of the heat source must be transversal to lens of the device, because detection occurs by means of intersection of bands. Therefore, if source moves parallel to the bands, detection will occur at a lesser distance. The ambient temperature also affects the sensitivity of the device. The higher the temperature, the poorer sensitivity will be.
- The head can rotate horizontally about 180° and vertically about 45°. To adjust the field of detection:
 - turn the intervention time selector to the minimum and the brightness selector to (*);
 - check coverage by moving inside the field of detection.
 The device is also equipped with limiters of the detection area divided into four sectors. If applied to the lens, they make it possible to exclude one or more of the sectors of the field of detection.
- To adjust the brightness, turn the selector towards (C); when the ambient brightness is as desired for operation, start turning the selector the other way, until illumination occurs.
- To adjust the intervention time, turn the selector (☺) to the desired position. You can choose from a minimum of 3 seconds to a maximum of 30 minutes. This time is reset each time there is an interception by the detector.
- During normal operation, when the level of brightness drops below the set level, the device sets up for detection, and signals this condition via flashing of the internal LED.

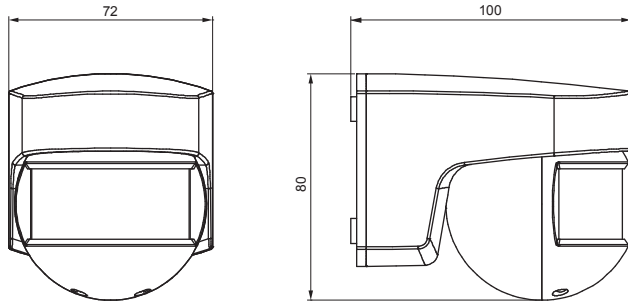
OPERATION

- The **Sensor-140** and **Sensor-200** have two operating modes:
 - normal mode, in which the devices are normally activated 30 seconds after they are connected;
 - permanently on, with the devices remaining on permanently for six hours. This occurs when you perform a rapid OFF-ON-OFF-ON operation (less than 2 seconds). The devices being operating in normal mode again when the six hours have elapsed or if, during this period, you perform another OFF-ON operation.

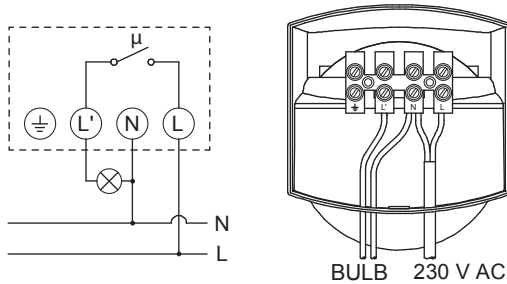
REFERENCE STANDARDS

Conformity to the EU directives:
 2006/95/EC (low voltage)
 2004/108/CE (EMC)
 is declared with reference to harmonized standard:
 EN 60669-2-1

Dimensions



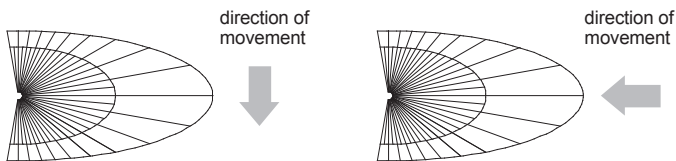
Connection diagrams



Sensitivity

GREATER SENSITIVITY

LESS SENSITIVITY



Field of detection

