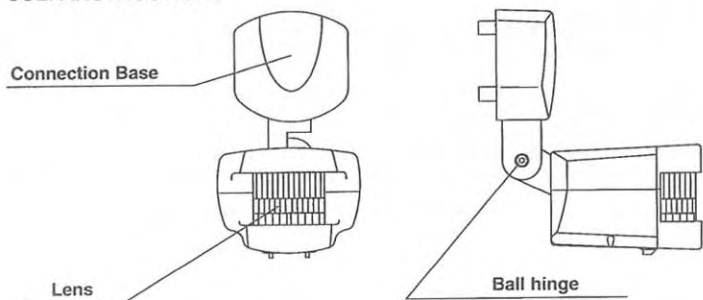


# PROXIMITY SWITCH SENSOMAT **SENSOMAT**

## USER INSTRUCTIONS



### DESCRIPTION:

The SENSOMAT proximity switch picks invisible infrared emissions coming from people and other heat sources without emitting any type of radiation.

When a heat source moves in front of the SENSOMAT its output circuit is activated, and once movement stops being detected it is inhibited after a period of adjustable delay.

The SENSOMAT only reacts when light conditions are below the level selected.

### INSTALLATION:

**WARNING:** The installation and the assembly of the electric devices should be carried out by a qualified installer.

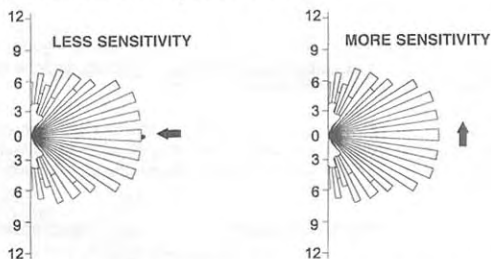
**BEFORE PROCEEDING TO THE INSTALLATION, DISCONNECT THE POWER SOURCE.**

The device is internally protected against interference by a safety circuit. Nevertheless, some particularly strong magnetic fields can manage to alter its operation, therefore it should not be mounted near inductive loads (motors, transformers, etc.).

**ASSEMBLY:** Wall-mounted: in its detection area, avoid the presence of highly reflective surfaces (liquids, marble, etc.), elements subject to abrupt changes of temperature (heating, air conditioning) or light sources.

The ideal height of assembly is about 2 and 3 metres. The direction of movement of the heat source should be transversal to the lens of the SENSOMAT.

When installing the SENSOMAT, it should be kept in mind that the detection takes place when its detection beams are crossed and therefore, if the heat source to be detected moves parallel to the beams, the detection takes place at a shorter distance, since it doesn't cross the beams until it is very near the device.

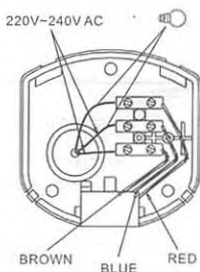
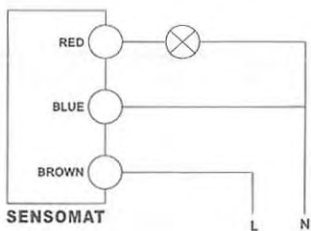


In the above figures the arrow indicates the direction of movement of the person or object to detect.

The ambient temperature of the enclosure where the SENSOMAT is mounted significantly affects detection sensitivity and therefore in the detection distance. The higher the temperature, the worse the sensibility, since the device works by detecting the movement of a heat source (in most cases 36 °C, human body temperature) - the closer the ambient temperature is to 36 °C, the worse is the detection.

## CONNECTION:

Connect according to the following schematic.



## PUTTING IN SERVICE. ADJUST:

Loosen the pivot screw and move the sensor to cover the desired field. In the lower part of the SENSOMAT are the "LUX" and "TIME" selectors.



TIME Botton



LUX Botton

## ADJUSTING THE FIELD OF DETECTION:

To adjust the field of detection, proceed as follows:

Rotate the "LUX" selector to the (+) position and the "TIME" selector to the (-) position. Check the covering by moving on the boundaries of the detection field. To exclude a sector of the field, cover the corresponding part of the lens with weatherproof opaque tape.

## ADJUSTING LUMINOSITY:

The SENSOMAT proximity switch can be graduated in such a way that it only acts when the light conditions are below the selected level. By rotating the "LUX" selector toward the position (☀), it will react in any condition of luminosity. By rotating toward the position (☾), it will only react under conditions of low luminosity.

## ADJUSTING THE DISCONNECT DELAY:

By rotating the "TIME" selector to the (+) position, the disconnection delay will be approximately 10 minutes. Rotating it to the left (minimum), the delay will be 10 seconds.

NOTE: The sensitivity of the sensor can suffer if the temperature of the object to be detected is near ambient temperature.

## TECHNICAL CHARACTERISTICS:

Power supply:	230 V, 50 Hz.
Break power:	10 A, 250 VAC
Recommended maximum loads:	
Incandescent lamps	1000 W
Fluorescent tubes, uncompensated	500 W
Fluorescent tubes, compensated	NOT SUITABLE
Halogens, Low Voltage	750 VA
Halogens (230 V ~)	1000 W
Low consumption lamps	NOT SUITABLE
Own consumption:	8.5 VA (1 W. approx.)
Range of luminosity:	5-300-∞ Lux.
Timeout range:	10 s to 10 min. approx.
Detection angle:	180 ° at 20 °C degrees
Detection field:	12 metres at 20 °C 9 metres lateral at 20 °C
Operating temperature:	-10 °C to +50 °C
Protection type:	IP 44 as per IN 60529
Protection class:	II as per IN 60335 under correct assembly conditions



## ORBIS TECNOLOGÍA ELÉCTRICA, S.A.

LÉRIDA, 61

E-28020 MADRID

TELÉFS.: + 34 91 567 22 77 . + 34 91 571 21 11

FAX: + 34 91 571 40 06

E-mail: info@orbis.es

http://www.orbis.es