

MECHANICAL THERMOSTAT MODEL M-S EX

GENERALITY

Thermal sensors mod. M-S Ex, are mechanical temperature sensors. Their construction characteristics make them robust and reliable products, to be used in industrial installations and/or in harsh areas where electronic thermal sensors are not suitable. M-S Ex sensors are divided into three distinct operating categories:

MOD. M-S MAX: sensor with alarm intervention only for maximum temperature. The maximum temperature is given by the sensor calibration which is carried out on request, with a range from - 20÷190 °C.

MOD. M-S SD: sensor with alarm intervention for both maximum temperature and sudden increase in temperature. Calibration range from – 20÷88°C.

The M-S thermal sensors are intended for object protection, not to be understood as automatic fire detectors for area protection, in accordance with current regulations on the matter. Normally we recommend an intervention temperature between 30÷35°C higher than the maximum installation temperature. The choice of the most suitable model must be evaluated based on the type of installation. M-S sensors are not position sensitive. Vertical sensors rely on the most common mounting configurations, however they can be mounted in both vertical and horizontal positions. The maximum calibration precision is $\pm 5^\circ\text{C}$ for all models. Ordinary maintenance consists of checking the temperature intervention of the sensors, heating the sensor body to the temperature at which it is calibrated, and, in any case, no more than 20% of the calibration temperature (for example, for a sensor calibrated at 100°C, heating up to 120°C is permitted).



ELECTRICAL CHARACTERISTICS:

The M-S models can be built with N.O. contacts. or N.C., which change their initial condition when the set temperature is reached. The maximum contact capacity is 2A at 48 VDC or VAC (resistive load).

MECHANICAL CHARACTERISTICS:

M-S thermal sensors are built with the following materials:

SENSOR: Material: UNI 5705-65 brass / AISI 304 steel / AISI 316 steel (these last two are special versions). The brass versions are superficially protected by shiny nickel plating.

Threads for both versions: in 3/4" GAS brass for the part towards the probe in 3/4" NPT brass for the part inserted into the housing.

CASE: The sensors are assembled on a light aluminum alloy case, measuring 90 mm. with 2 3/4" NPT inlets. On request, reductions can be mounted to have M20 inlets. The connection terminal block is placed inside the case.



Gabbia opzionale

CERTIFICATE

Atex Directive Marking :  II 2 GD

Atex Directive And IECEx Type of Protection:

- Ex db IIC T6 Gb-Ex tb IIIC T85°C Db IP66 (T amb. -20 +70°C)
- Ex db IIC T5 Gb-Ex tb IIIC T100°C Db IP66 (T amb. -20°+85°C)

Certificato EU di tipo / EU type Certificate N. INERIS03ATEX0119X

CoC Certificate: N. IECEx INE 18.0023X

UK Type Examination Certificate CML 21UKEX1617X

ECAS-Ex