

SURFACE TEMPERATURE SENSORS

SCH Eng.



- **NTC temperature sensing element**
- **Measurement range:**
– (0... 100 °C)
- **Installation:**
– Surface mounting on pipe

1. APPLICATION

In combination with other devices (manufactured by Coster), measures the temperature of a fluid flowing in a pipe. The part in contact with the pipe is made of brass (material with excellent heat transmission properties); in this brass housing is the temperature sensing element. .

2. MODEL AVAILABLE

| Code | Description | Range | Sensing element | Max. length cables for.: | | |
|----------------|---|-------------|-----------------|--------------------------|---------------------|---------------------|
| | | | | 1mm ² | 1.5 mm ² | 2.5 mm ² |
| SCH 010 | In surface-mounted 45 x 80 x 35 enclosure | 0... 100 °C | NTC 10 kΩ | 700 m | 1000 m | 2000 m |

3. TECHNICAL DATA

| | | | |
|-------------------------------|------------------|------------------------|--------------------------------------|
| Temperature sensing element:: | | Materials: | |
| Type | vedi tabella (2) | Enclosure | NYLON |
| Temperature constant | 3 min. | Contact surface | copper plate |
| Measurement range | vedi tabella (2) | Dimensions | see table in 2 above |
| Protection | IP 54 | Installation | in contact with pipe |
| Cable entry | PG 11 | Construction standards | Italian Electrotech. Committee (CEI) |
| | | Weight | 140 g |

4. INSTALLATION

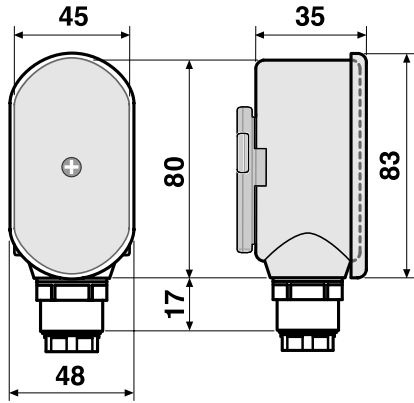
The sensor must be installed on a pipe, in direct contact with the metal. Should the pipe be coated with insulation, sufficient should be removed to permit installation.

- Secure the sensing element holder with the enclosure to the pipe so that it adheres perfectly; then, using the strap supplied, secure it to the pipe.
- Separate the cover from the enclosure by loosening the securing screw
- Carry out the electric wiring in strict accordance with the diagram and with the safety regulations in force, using cables of the appropriate diameter (**NOT telephone or similar cables**); see table in 2 above.
- Rimontare il coperchio sul contenitore, avvitando a fondo la vite di bloccaggio dei due componenti.

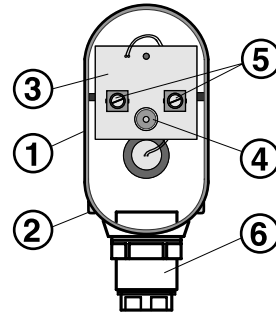
WARNING:

- **If the detector is connected using a single bipolar cable the distances shown in the table in 2 above must be strictly observed in order not to compromise correct functioning.**
- **If several sensors are to be connected by a single multicore cable, ALL the sensors must be of COSTER manufacture.**
- **For correct data monitoring the installation must be carried out following the above instructions to the letter.**

5. OVERALL DIMENSIONS

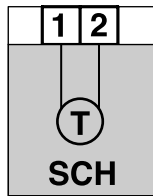


6. ENCLOSURE

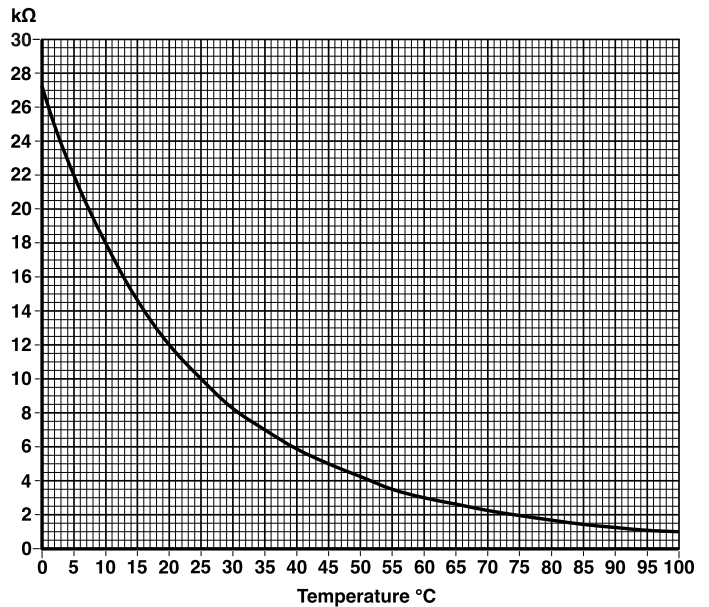


- 1 - Cover
- 2 - Sensing element holder
- 3 - Printed circuit
- 4 - Cover securing screw
- 5 - Terminals for connections
- 6 - PG11 cable entry

7. WIRING DIAGRAM



8. NTC 10 KΩ SENSING ELEMENT GRAPH



Amended 12.11.01

Amended : MC 23.02.05

| Page | Section | Amendments |
|------|----------------|--|
| 1 | General | New photograph |
| 2 | 4 Installation | Amendments text (see wiring) |
| | 5/6/7 | Amendments diagrams. |
| | 8 Diagrams | Replacement graph (previously unclear) |



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