

TEMPERATURE SENSOR FOR HEATING/COOLING COILS

STT Eng.

- **NTC temperature sensing element**
- **Range:**
– (0... 40 °C)
- **Installation:**
– on extract air of heating/cooling coils



1. APPLICATION

For measuring extract air temperature of heating/cooling coils.
The sensing element is housed in a shockproof protective sheath and is connected directly to a bipolar cable.
A flexible metal strap permits easy installation.

2. MODEL AVAILABLE

Code	Description	Setting range	Sensing element	Max. length cables of:		
				1 mm ²	1.5 mm ²	2.5 mm ²
STT 010	Temperature sensor for heating/cooling coils	0... 40 °C	NTC 10 kΩ	700 m	1000 m	2000 m

3. TECHNICAL DATA

Temperature sensing element:

Type	see table in 2 above	Installation	directly on heating/cooling coil
Temperature constant	15 s	Construction standards	Italian Electr. Committee (CEI)
Range	see table in 2 above	Materials:	
Protection	IP 30	Protection for sensing element	NYLON
Cable dimensions	2 x 0.5 mm ² x 1.5 m	Flexible metal strap	aluminium
		Weight	90 g

4. INSTALLATION

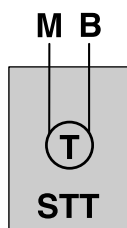
STT must be installed on the extract air of the heating/cooling coil and secured by means of the metal strap supplied.

- Bend the metal strap according to the installation requirements.
- Secure the metal strap to the heating/cooling coil using the holes provided.
- Carry out the electric wiring in strict compliance with the diagram and with the safety regulations in force, using cables of a suitable diameter (**NB: NOT telephone or similar cables**); see table under 2 above.

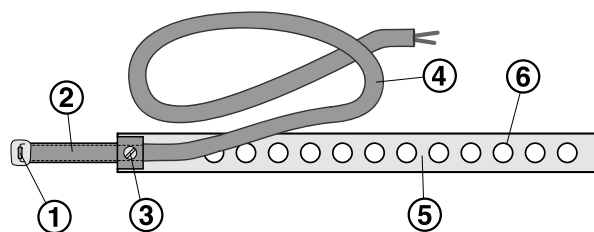
WARNING:

- **If it is indispensable to lengthen the detector cable, refer to the diameters and distances given in the table under 2 above; these must be strictly adhered to for correct operation**
- **Connection of several detectors by a multicore cable: all the detectors must be COSTER products**
- **For correct temperature measurement, all these installation instructions must be followed to the letter.**

5. WIRING DIAGRAM

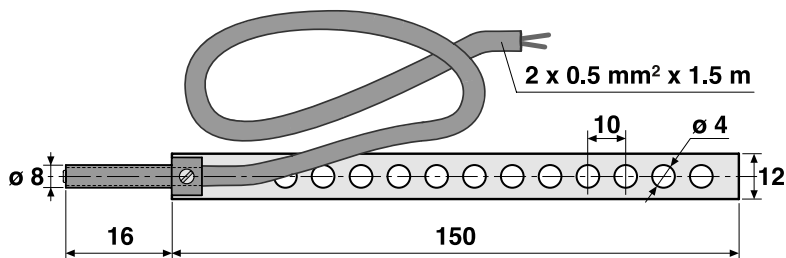


6. DESCRIPTION

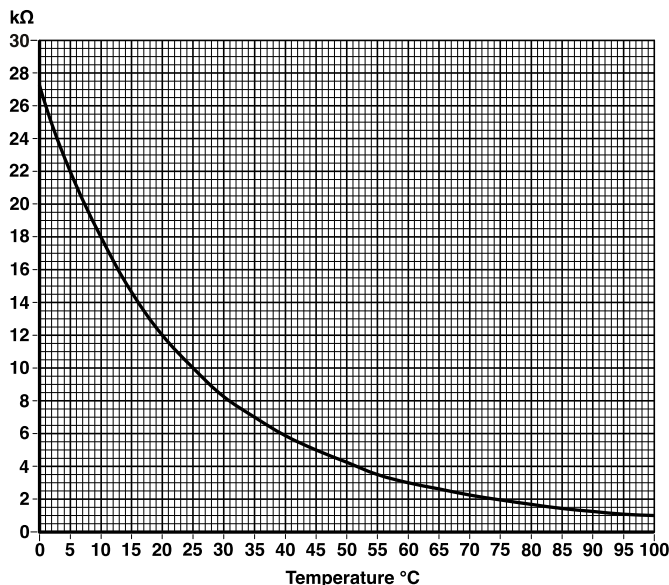


- | | |
|------------------------------------|------------------------------|
| 1 – Temperature sensing element | 4 – Connecting cable |
| 2 – Protection for sensing element | 5 – Flexible attaching strap |
| 3 – Cable securing screw | 6 – Holes for fixing |

7. OVERALL DIMENSIONS



8. NTC 10 KΩ SENSING ELEMENT: TEMPERATURE / RESISTANCE



Amendments to version dated 13.11.01

Updated. : MC 12.04.05

Page	Paragraph	Amendments
1	General 4 Installion 5/6	Photograph updated. Correction text (see connection section). Diagrams updated.
2	7 8 Diagram	Diagram updated New graph substituted (old one unclear).



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