

## S-T, Flying Lead Temperature Sensor

### Features

- Thermistors and PT sensing elements to fit your system
- Simple installation
- Wide range of temperature probes
- Including 2m (6.5ft) cable

### Applications

- Measure temperature for heating, ventilation and air conditioning applications
- As frost protection sensor




### Temperature Sensor

The sensor measures the temperature by use of a NTC, PT, or NI-sensing element. The sensing element is either a glass packed thermistor with a negative temperature coefficient, a platinum film or a nickel thin layer based probe. Its resistance changes according to the temperature. The change follows a specified curve. Contact our sales department for curves not yet listed below.

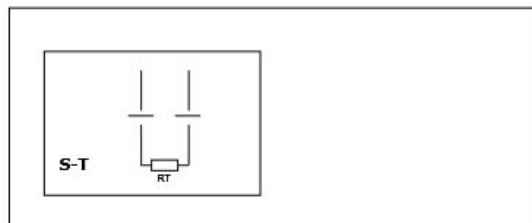
### Ordering

Item name	Article #	Probe Type	Definition	Comments
S-Tn3-2	40-20 0007	NTC 3kΩ at 25°C (77°F)	B <sub>25/50</sub> 3935	
S-Tn10-2	40-20 0001	NTC 10kΩ at 25°C (77°F)	B <sub>25/50</sub> 3935	Vector standard
S-Tn11-2	40-20 0008	NTC 10kΩ at 25°C (77°F)	B <sub>25/50</sub> 3630	

### Technical Specification

Sensing Probe	Thermistor:	NTC
	Range: (Probe only)	-70...150°C (-94...302°F)
	Accuracy: -40...0°C (-40...32°F):	0.5 K
	0...50°C (32...122°F):	0.2 K
	50...100°C (122...212°F):	0.5 K
	> 100°C (> 212°F):	1 K
	Platinum-Film:	PT according EN 60751
	Range: (Probe only)	-70...200°C (-94...392)
	Accuracy	EN 60751, Class B
	Nickel Thin Layer:	1000 Ω at 0°C, 5000 ppm/K
	Range: (Probe only)	-60...200°C (-76...392°F)
	Accuracy	DIN 43760
Cable	Size	2 x 0.25 mm <sup>2</sup> (AWG 30)
	Length	2m (6.5ft)
	Insulation Material	PVC (Standard) Silicone (Specify: -HT)
Environment	Operation	To IEC 721-3-3
	Climatic Conditions	class 3 K5
	Temperature depends on cable insulation material:	PVC: -40...100°C (-94...212°F) Silicone: -50...180°C (-58...356°F)
	Humidity	<95% R.H. non-condensing
	Transport & Storage	To IEC 721-3-2 and IEC 721-3-1
	Climatic Conditions	class 3 K3 and class 1 K3
Temperature	-40...80°C (-40...176°F)	
Humidity	<95% R.H. non-condensing	
Mechanical Conditions	class 2M2	
Standards	 conform according to EMC Standard 89/336/EEC	EN 61 000-6-1/ EN 61 000-6-3
	Product standards	
	Automatic electrical controls for household and similar use	EN 60 730 -1
	Special requirement on temperature dependent controls	EN 60 730 - 2 - 9
	Safety Class	III (IEC 60536)
Housing	Probe	Stainless Steel
	Dimensions (Diameter x L)	∅ 6 x 50 mm (∅ 0.25 x 2 in)
	Weight (including package)	70g (2.5oz)

### Wiring Diagram



### Dimension [mm](in)

