YT036020

TEMPERATURE SENSORS • RESISTANCE THERMOMETERS

The temperature measurement is of great importance in many industrial applications. It is distinguished between two different measurement principles: 1. contactless and 2. media contacting. A contactless measurement is carried out via infrared radiation. It allows a measurement of temperatures up to 1800°C, as no periphery of the system, such as the probe, requires contact to the medium or object. As a result these devices are often used in forges, rolling mills or generally in steel processing companies. The media contacting measurement is usually performed in combination with a PT100 thermal resistance, which is then connected to the evaluation electronics or display devices. Areas of application for these system versions can be found in cooling systems, storage tanks, exhaust systems, extraction or ventilation systems.

MECHANICAL DATA

Bending radius	9 mm
Housing design	Cylinder, screw-thread
Installation depth	100 mm
Medium temperature (MAX)	350 °C
Medium temperature (MIN)	-30 °C
Sensor diameter	3
Sensor length	100
Version	Temperature sensor

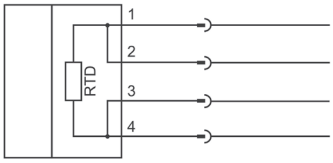
ELECTRICAL DATA

Data logging possible	No
Interface possible	No
Measuring accuracy of temperature	0.15 °C
Programmable via software	No
Resistance circuit	4-wire
Reverse polarity protection	No
Type of electrical connection	Connector M12
Type of temperature sensor	PT100
With feed line	No

OTHER DATA

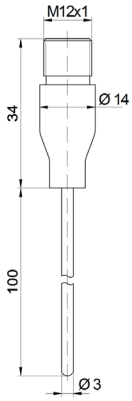
In acc. with DIN IEC 751	Class A
Structure	Densely clutched magnesium oxide insulation

CONNECTION



Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)
Functions:

DIMENSIONAL DRAWING



INSTALLATION

Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL

SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.

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