

YT98E171

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

Ambient temperature	-40 °C ... 125 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4404
Installation depth	60 mm
Medium temperature	-50 °C ... 250 °C
Sensor diameter	3
Sensor length	60
Version	Temperature sensor

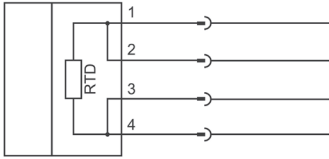
ELECTRICAL DATA

Resistance value at 0°C	100 Ohm
Type of electrical connection	Connector M12
With feed line	No

OTHER DATA

In acc. with DIN IEC 751	Class B
--------------------------	---------

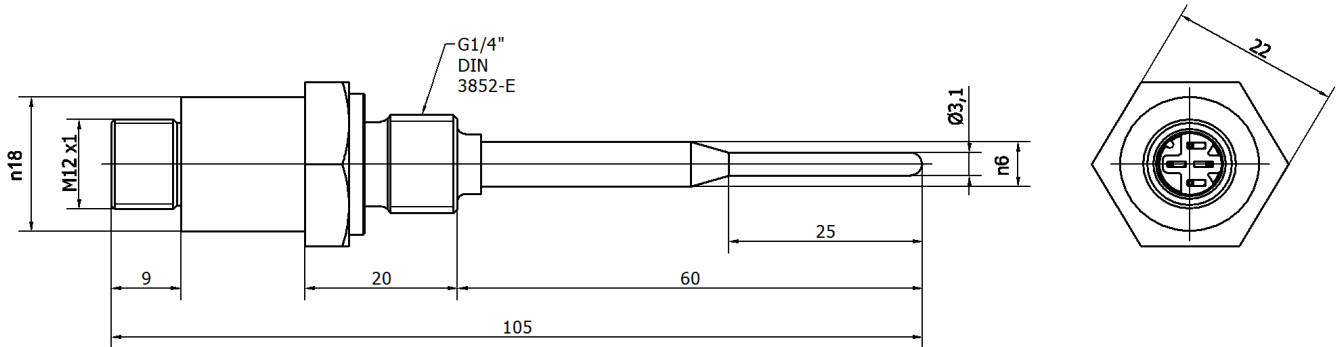
CONNECTION



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!