

## YT03C578

### 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 |
| Medium temperature | -30 °C ... 350 °C      |
| Sensor diameter    | 3                      |
| Sensor length      | 1600                   |
| Version            | Temperature sensor     |

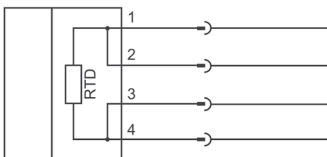
#### ELECTRICAL DATA

|                                   |               |
|-----------------------------------|---------------|
| Measuring accuracy of temperature | 0.15 °C       |
| 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 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

#### DISPOSAL



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



**SAFETY WARNINGS**

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