

YT036020

Temperature sensors • Resistance thermometers

Temperature sensor, Ø3mm 100long, PT100, 4-wire, medium temperature -30-350°C, connection to amplifier, M12 plug connector



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.

Electrical features

Type of electrical connection	Connector M12
Type of temperature sensor	PT100
Measuring accuracy of temperature	0.15 °C
Reverse polarity protection	No
Resistance circuit	4-wire
Connection to amplifier	Yes

Mechanical features

Design	Cylinder, screw-thread
Bending radius	9 mm
Diameter	3 mm
Installation depth	100 mm
Sensor material	Stainless steel 1.4401
Length	100 mm
Medium temperature	-30 - 350 °C
Insulating body material	Magnesium oxide

Other features

In acc. with DIN IEC 751	Class A
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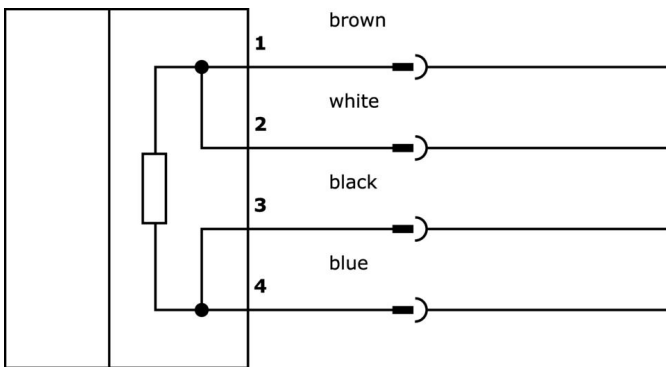
Classification

ETIM 8	EC002081 Temperature probe
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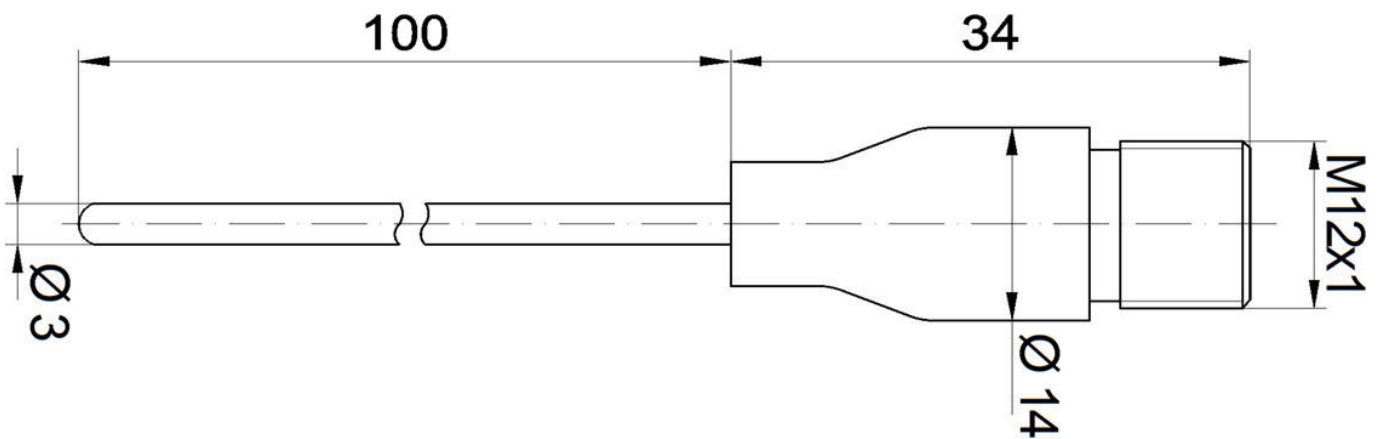
More

IPF Product Group	310 temperature sensors
packaging dimensions	150 x 100 x 11 mm
gross weight	20 g
Customs tariff number	90251900
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK030F21



Connection cable, 0.3m, M12 socket 4-pin angular, M12 connector 4-pin straight, 4x0.34mm², 240V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F25



Connection cable, 0.3m, M12 socket 4-pin straight, M12 connector 4-pin straight, 4x0.34mm², PUR (polyurethane), 240V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

YT353100



Measuring transducer, temperature sensor, 118x40x40mm, -40-300°C, PT100, 4 digits, 12-32V DC, 2x PNP NC/NO, 0-10V/4-20mA, M12 plug connector, IP65, PA 6.6 (plastic), LED

YT353120



Measuring transducer, temperature sensor, 118x40x40mm, -40-300°C, PT100, 4 digits, 12-32V DC, 2x PNP NC/NO, 0-10V/4-20mA, M12 plug connector, IP65, PA 6.6 (plastic), LED

AT000003



accessories, Screw-in sleeve, Clamp fitting, 1/2 inch 40long, DIN/ISO 228 (G), V4A, With stainless steel V-ring

AT000004



accessories Temperature sensor, Adapter for piping anchorage, Brass

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.