

YT05F001

Temperature sensors • Resistance thermometers

Temperature sensor, Ø4mm 26long, M5, PT100, 4-wire, medium temperature -30-180°C, connection to amplifier, M12 cable connector, 2m, silicone, IP67



Temperature measurement is of great importance in many industrial applications. We distinguish between two different measuring principles: 1. contactless and 2. media-contacting. Contactless measurement takes place via infrared radiation, which allows temperatures of up to 1800°C to be determined, as no peripherals of the system, such as the sensor, require contact with the medium or object. For this reason, these devices are often used in forges, rolling mills or steel processing companies in general. The measurement in contact with the medium is usually carried out in combination with a PT100 thermal resistor, which is then connected to the evaluation electronics or display devices. Areas of application for these system variants include cooling circuits, storage tanks, exhaust gas systems, extraction systems or ventilation systems.

Electrical features

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

Mechanical features

Type of process connection	M5
Design	Cylinder, screw-thread
Diameter	4 mm
Sensor material	Stainless steel 1.4404
Cable length	2 m
Length	25.7 mm
Maximum tightening torque	1.5 Nm
Medium temperature	-30 - 180 °C
Wrench size	8 mm
Degree of protection (IP)	IP67
Material of cable sheath	Silicone

Other features

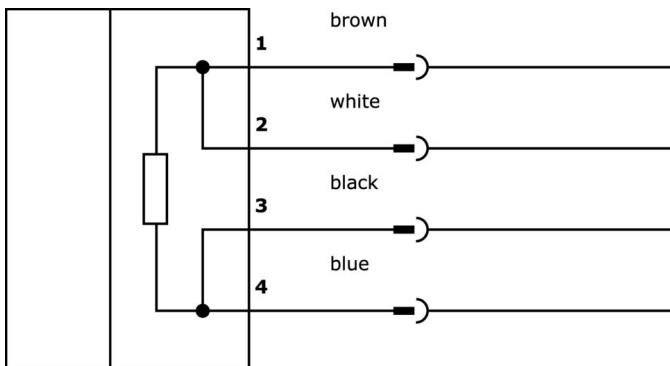
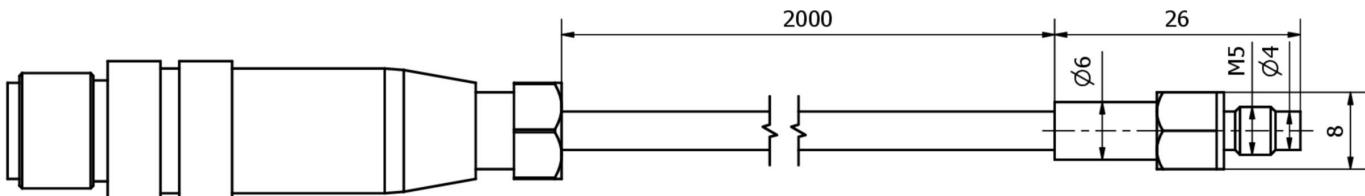
In acc. with DIN IEC 751	Class A
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Classification

ETIM 8

More

IPF Product Group	310 temperature sensors
packaging dimensions	150 x 220 x 20 mm
gross weight	105 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

VK003021



Cable socket, Angular, Suitable for
self-assembly, Screw connection,
Ø3-6.5mm, 4A, 60V, -25-90°C,
M12 Female (socket) 5pin, IP67,
PBT

VK003025



Cable socket, Straight, Suitable for
self-assembly, Screw connection,
Ø3-6.5mm, 4A, 60V, -25-90°C,
M12 Female (socket) 5pin, IP67,
PBT

VK003020



Cable socket, angular, self-
assembly, screw connection, Ø3-6.
5mm, 4A, 240V, -25-90°C, M12
socket 4-pin, IP67, PBT

VK003024



Cable socket, Straight, Suitable for
self-assembly, Screw connection,
Ø3-6.5mm, 4A, 240V, -25-90°C,
M12 Female (socket) 4pin, IP67,
PBT

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.