

Bearing Temperature Sensor W-BTD / T-BTD

Features

- suitable for bearing temperature measurement
- temperature sensor with flat tip and spring-loaded screw
- temperature range -200 °C...+300 °C
- Pt100, accuracy class A, as a standard, more accurate on request
- standard materials AISI 316L and brass tip
- tailored solutions according to specific needs

Typical Applications

- machinery
- motor manufacturing industry
- gear manufacturing industry



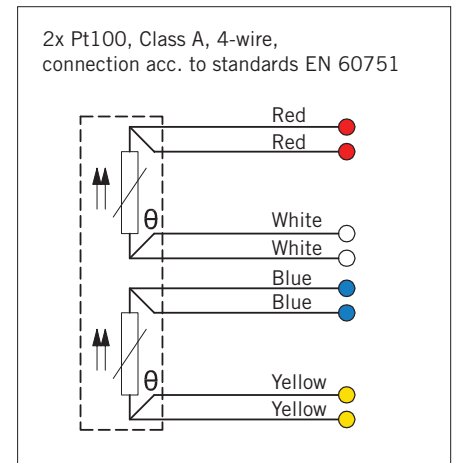
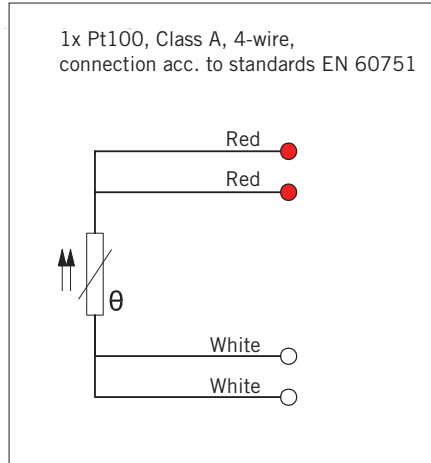
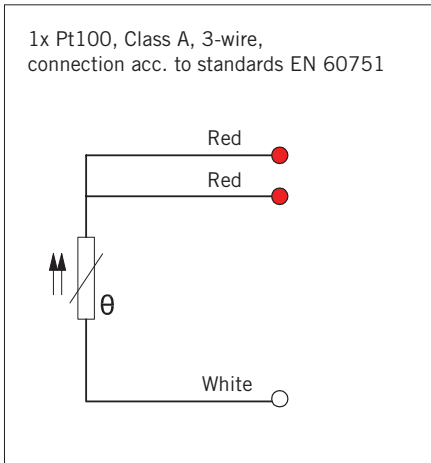
Technical data

Probe material	AISI 316L/brass
Sensor tip diameter	8 mm, the sensor tube is tapered from tip portion to reduce the heat conduction. Others on request
Cable material	SIL = silicon, max +180 °C FEP = teflon®, max +205 °C GGD = glass silk/metal braid, max +350 °C PUR = excellent oil resistance, max + 80 °C
Standard thread options	R3/8" standard, R1/2" optional
Tolerances Pt100 (EN-60751)	A, tolerance +/- 0,15 + 0,002 x t, operating temperature -100...+450 °C B, tolerance +/- 0,3 + 0,005 x t, operating temperature -196...+600 °C B 1/3 DIN, tolerance +/- 1/3 x (0,3 + 0,005 x t), operating temperature -196...+600 °C B 1/10 DIN, tolerance +/- 1/10 x (0,3 + 0,005 x t), operating temperature -196...+600 °C
Tolerances TC (EN-60584-2)	Type J tolerance class 1 = -40...375 °C +/- 1,5 °C, 375...750 °C +/- 0,004 x t Type K and N tolerance class 1 = -40...375 °C +/- 1,5 °C, 375...1000 °C +/- 0,004 x t
Temperature range Pt100	-200...+300 °C, depending on application and material.
Temperature range TC TC = thermo couple	-40...+250 °C depending on thermocouple type
Approvals	GOST-R, METROLOGICAL PATTERN APPROVAL, ROSTECHNADZOR
Quality certificate	ISO 9001:2008 issued by DNV

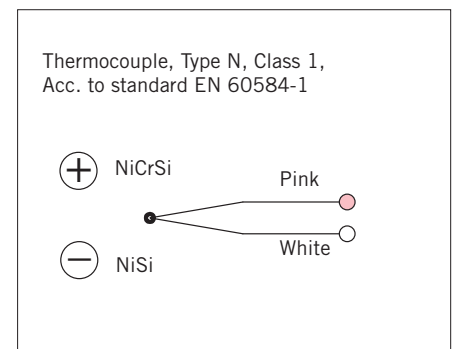
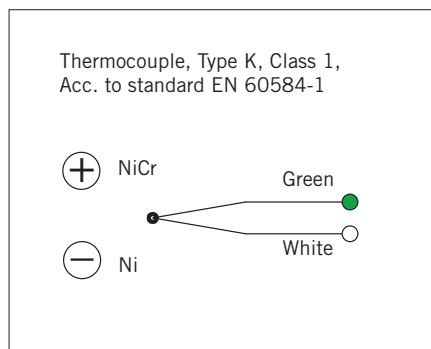
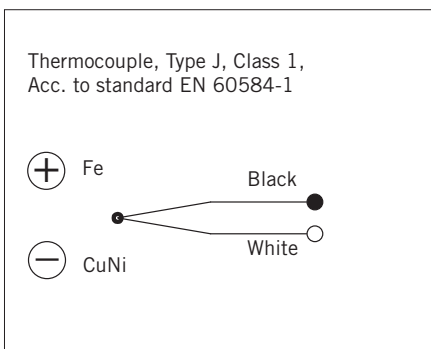


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Pt 100 Connections

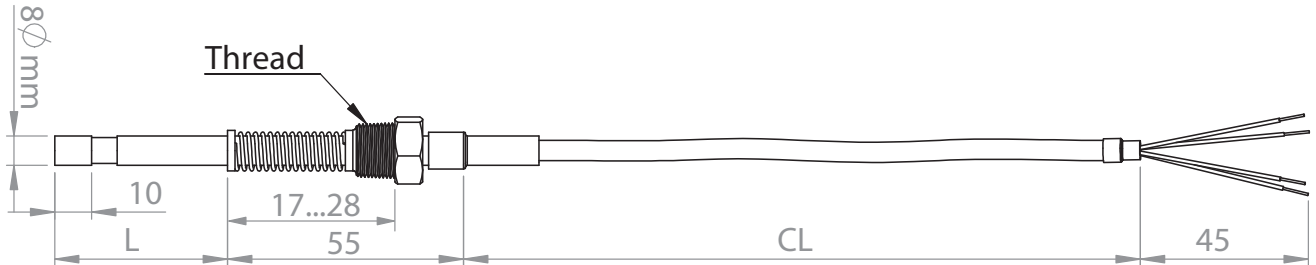


Thermoelement connections



Bearing Temperature Sensor W-BTD / T-BTD

Drawing



Product code key



Example code: W - BTD - Pt100A - L30 - 4M / SIL - X

Bearing temperature sensor

W	= Pt100 resistance sensor
2xW	= 2xPt100 resistance sensor
T	= Thermocouple
2xT	= 2 x Thermocouple
BTD	= bearing sensor
Pt100A	= Pt100 precision class A (STANDARD)
TC-K1	= TC-K/N/J 1
L30	= L-length (immersion depth L + 17...28 mm)
4M	= CL = cable length (m)
SIL	= cable insulation material
X	= Additional details on the text line

