

EPIC® SENSORS T-SCREW / W-SCREW

Threaded temperature sensor with cable

Features

- temperature range *) -200...+300 °C
- Pt 100 or thermocouple as sensing element
- AISI 316L as standard delivery material, other materials on request
- Pt 100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex i versions available
- 3D step models available on request.

Typical applications

- energy and power plant technology
- process industry
- chemical industry
- · machinery and vessel construction
- manufacturing industry.



Technical data

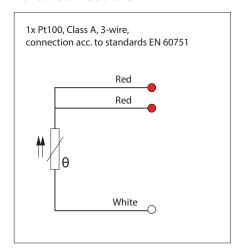
*) Materials	AISI 316L, maximum temperature +250 °C, temporarily +300 °C, other materials on request (Note: overall max. temperature according to the cable)
Diameter	3, 4, 5, 6 or 8 mm, other diameters on request
Thread size and length	According to request, all sizes and lengths available Note: minor diameter of thread cannot be < element diameter
Cable material	SIL = silicone, max. +180 °C FEP = fluoropolymer, max. +205 °C GGD = glass silk cable/metal braid jacket, max. +350 °C FDF = FEP wire insulation/braid shield/FEP jacket, max. +205 °C SDS = silicone wire insulation/braid shield/silicone jacket, only available as 2 wire cable, max. +180 °C TDT = fluoropolymer wire insulation/braid shield/fluoropolymer jacket, max. +205 °C FDS = FEP wire insulation/braid shield/silicone jacket, max. +180 °C FS = FEP wire insulation/silicone jacket, max. +180 °C
Tolerances Pt100 (IEC 60751)	AA tolerance $\pm 0.1 + 0.0017$ x t, operating temperature -50+250 °C A tolerance $\pm 0.15 + 0.002$ x t, operating temperature -100+450 °C B tolerance $\pm 0.3 + 0.005$ x t, operating temperature -196+600 °C B 1/3 DIN, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature -196+250 °C
Tolerances thermocouple (IEC 60584)	Type J tolerance class 1 = -40375 °C ±1.5 °C, 375750 °C ±0.004 x t Type K and N tolerance class 1 = -40375 °C ±1.5 °C, 3751000 °C ±0.004 x t
*) Temperature range Pt 100	-200+300 °C, depending on materials
*) Temperature range thermocouple	-200+300 °C, depending on thermocouple type and other materials
Approvals	ATEX, IECEx
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV

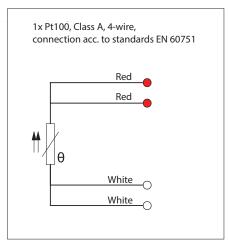


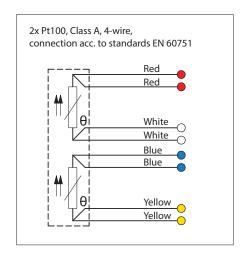
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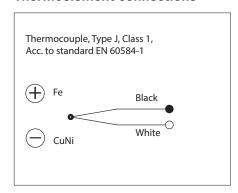
Pt 100 connections

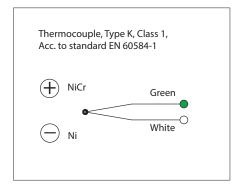


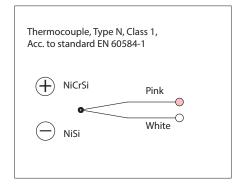




Thermoelement connections





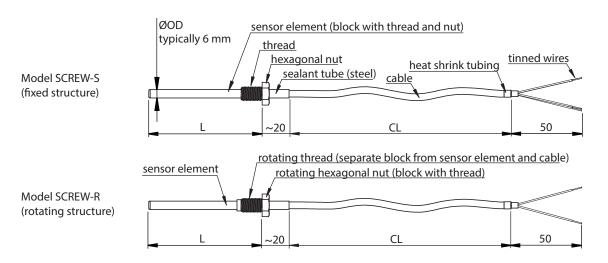




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Drawing



Product code key

