

EPIC® SENSORS T-MAGN / W-MAGN

Magnetic temperature sensor

Features

- temperature range *) -50...+350 °C
- quick installation
- Pt 100 or thermocouple as sensing element
- Pt 100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- AISI 316L as standard delivery material, other materials on request
- 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

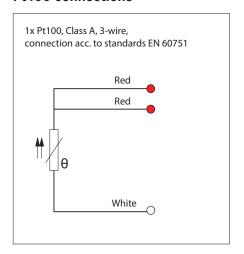
*) Materials	AISI 316L, max. temperature +250 °C, temporarily +350 °C, other materials on request
Dimensions	Small magnet, external Ø25 mm / height 7 mm, other dimensions on request Large magnet, external Ø60 mm / height 15 mm, other dimensions on request
Cable materials	SIL = silicone, max. +180 °C 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 $\pm 0.1 + 0.0017 \times t$, operating temperature -50+250 °C A tolerance $\pm 0.15 + 0.002 \times t$, operating temperature -100+450 °C B tolerance $\pm 0.3 + 0.005 \times t$, 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 \pm 1.5 °C, 375750 °C \pm 0.004 x t Type K and N tolerance class 1 = -40375 °C \pm 5 °C, 3751000 °C \pm 0.004 x t
*) Temperature range Pt100	-50+350 °C for large magnet, depending on cable material -50+200 °C for small magnet, depending on cable material
*) Temperature range thermocouple	-50+350 °C for large magnet, depending on cable material -50+200 °C for small magnet, depending on cable material
Approvals	ATEX, IECEx
Quality certificate	ISO 9001:2015 and ISO 14001:2015 issued by DNV

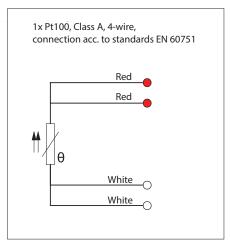


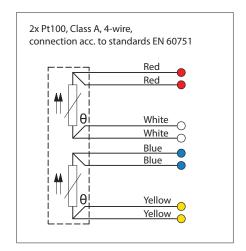
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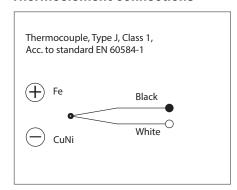
Pt 100 connections

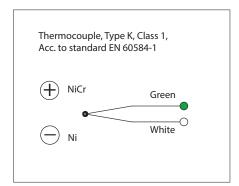


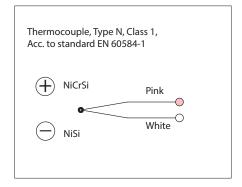




Thermoelement connections





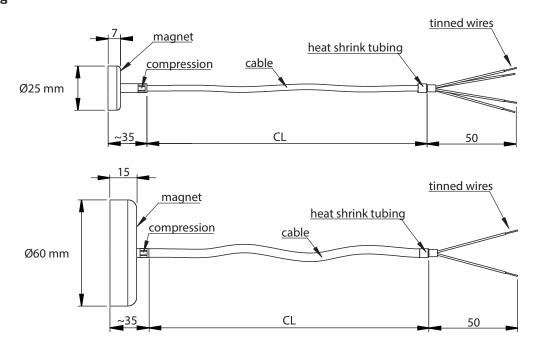




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Drawing



Product code key

