EPIC[®] SENSORS nxT-MP-303 Mineral insulated temperature sensor for multipoint measurement

Features

- according to DIN 43721
- temperature range *) -200...+1200 °C
- AISI 316L or INCONEL 600 as standard delivery material, other materials on request
- customer specific lengths
- customer specific amount of measurement points
- MI cable structured sensor element
- depending on the customer application, the sensor element can be constructed as a bendable or nonbendable element
- vibration proof
- thermocouple as sensing element
- thermocouple accuracy class 1 as standard delivery
- EMI shielded version available
- 3D step models available on request.

Typical applications

- steel industry, chill molds
- energy and power plant technology
- process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.

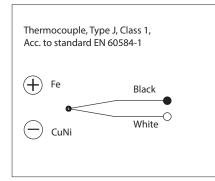


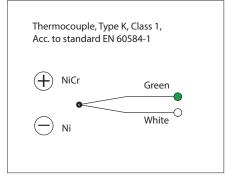
Technical data

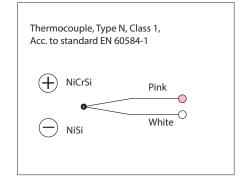
*) Materials	AISI 316L, maximum temperature +550 °C, temporarily +600 °C, INCONEL 600, maximum temperature +1100 °C, temporarily +1200 °C Other materials on request (Note. max. safe temperature +100 °C for the sealant tube in cable to sensor element transition)
Tolerances thermocouple (IEC 60584)	Type J tolerance class1 = -40 375 °C ±1,5 °C, 375750 °C ±0,004 x t Types K and N tolerance class 1 = -40375 °C ±1,5 °C, 3751000 °C ±0,004 x t
*) 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 FDS = FEP wire insulation/braid shield/silicone jacket, max. +180 °C FS = FEP wire insulation/silicone jacket, max. +180 °C (Note. max. safe temperature +100 °C for the sealant tube in cable to sensor element transition)
*) Temperature range	-200+1200 °C depending on thermocouple type and cable material (Note. max. safe temperature +100 °C for the sealant tube in cable to sensor element transition)
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV
IP rating	IP65, higher IP rating on request

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Thermoelement connections



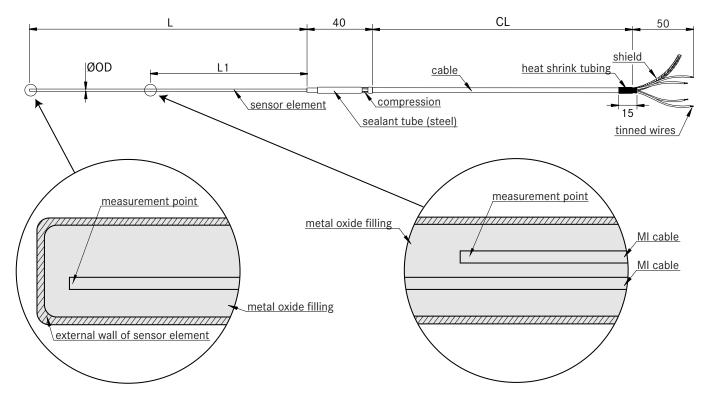




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Drawing



Product code key

nxT

2.7 2750

650

AISI INCO

5000

SIL, FEP, GGD, FDF, TDT, SDS,

FDS, FS

K,N,J

1,2,3

Х

MP-303

