

EPIC® SENSORS T-D / W-D

Welded temperature sensor

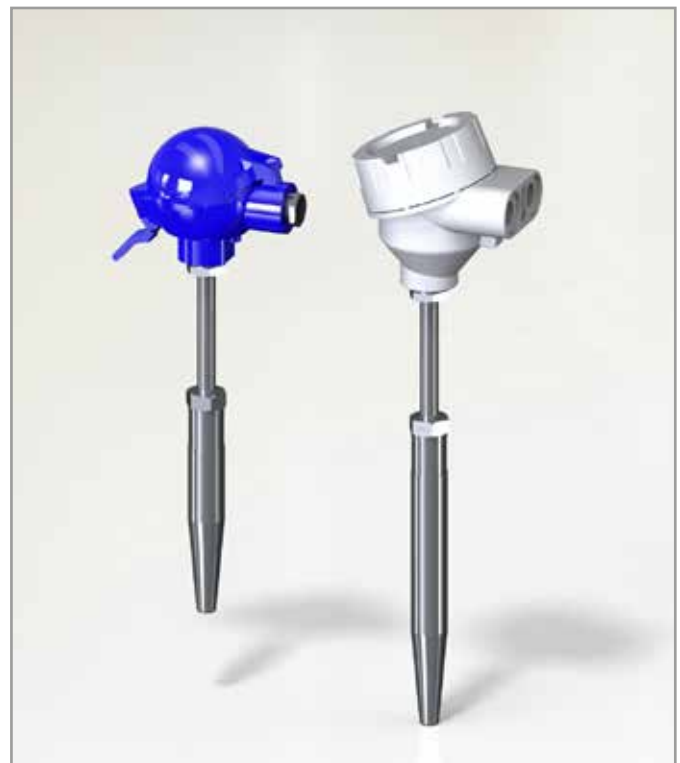
According to DIN 43772 form 4

Features

- Temperature range - 200...+1200 °C
- Pt 100 or thermocouple
- With welded thermowell
- Thermowell material according to the application
- Pt 100, accuracy class A, as a standard, more accurate on request
- TC, class 1 as a standard
- Replaceable inner element, MI-construction
- Tailored solutions according to specific needs
- ATEX-version Ex db also available
- Standard cooling neck length 145 mm, others on request.

Typical Applications

- Energy and power plant technology
- Process industry
- Chemical industry
- Machinery, plant and vessel construction.



Technical data

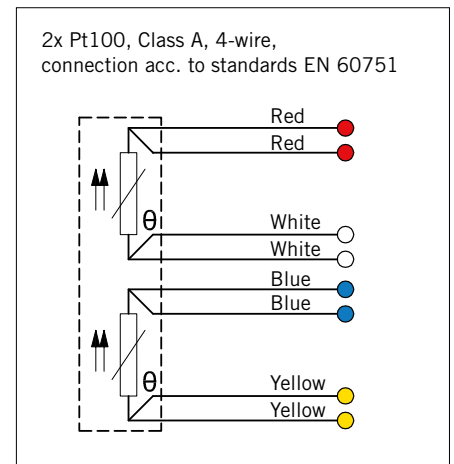
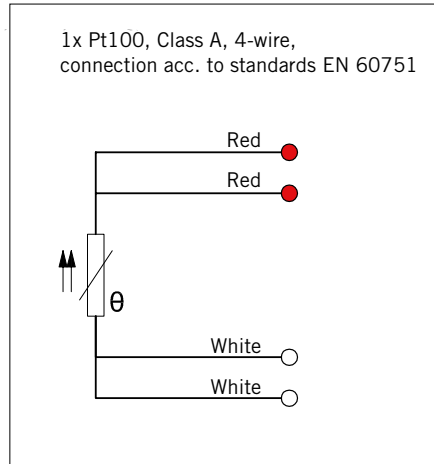
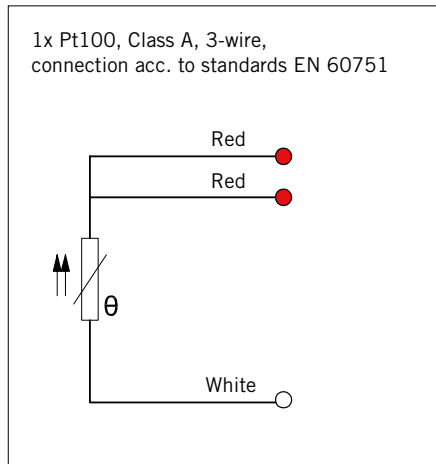
Thermowell material	K = AISI 316L max. temp. +550 °C L = 13CrMo44/1.7335 max. temp. +550 °C M = 10CrMo910/1.7380 max. temp. +580 °C O = 16Mo3/1.5415 max. temp. +480 °C 1.4462 SMO254 1.4307 Ti Gr2 Other materials available on request
Thermowell type	D1/D2, D4/D5, D3/D6 according to DIN 43772 Form 4 , others on request
Tolerances Pt 100 (IEC 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 (IEC 60584)	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...+550 °C
Temperature range TC	-200...+1200 °C depending on thermoelement type and thermowell material
Approvals	ATEX, METROLOGICAL PATTERN APPROVAL
Quality certificate	ISO 9001:2015 issued by DNV
IP-class	IP65, higher IP-class on request

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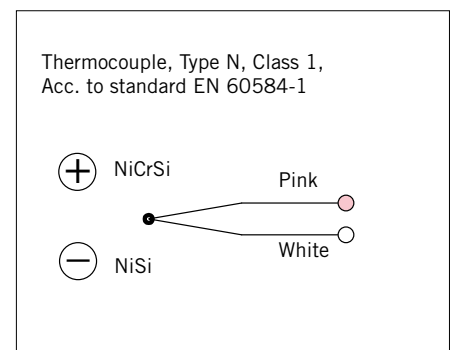
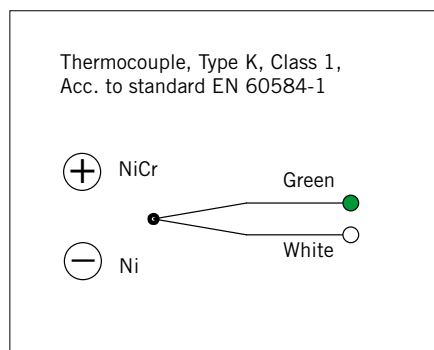
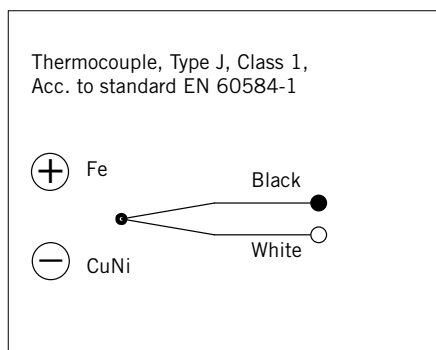
Welded temperature sensor

According to DIN 43772 form 4

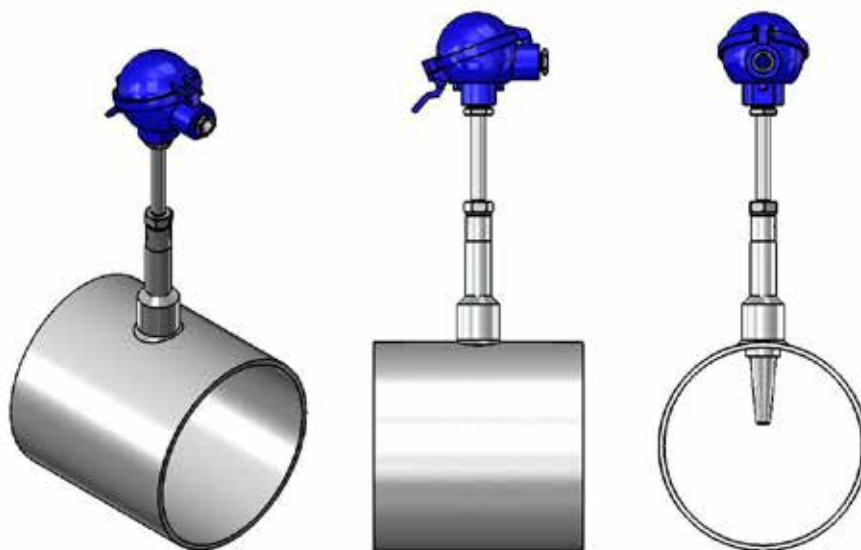
Pt100 connections



Thermoelement connections



Installation examples

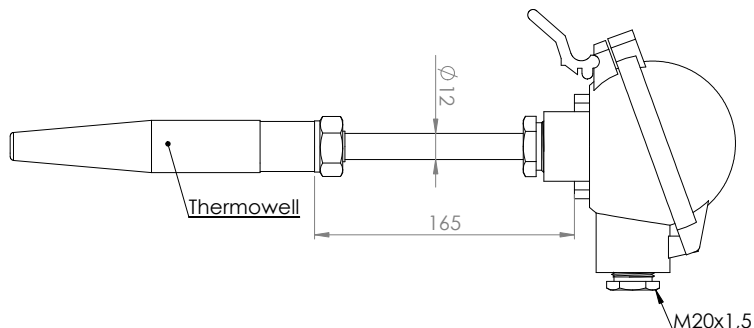


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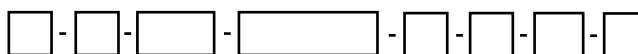
Welded temperature sensor

According to DIN 43772 form 4

Drawing



Product code key



Example code: W - D - D1/K - D / W / H - 4 - A - TR - X

Welded Well + Pt100/Thermocouple Sensing Element

- W = Pt100 resistance sensor
- 2xW = 2xPt100 resistance sensor
- T = Thermocouple
- 2xT = 2 x Thermocouple

- D = welded well

- D1 = thermowell size (D1, D2, D4, D5)
- K = AISI 316L
- L = 13CrMo44/1.7335
- M = 10CrMo910/1.7380
- O = 16Mo3/1.5415
- other materials available on request

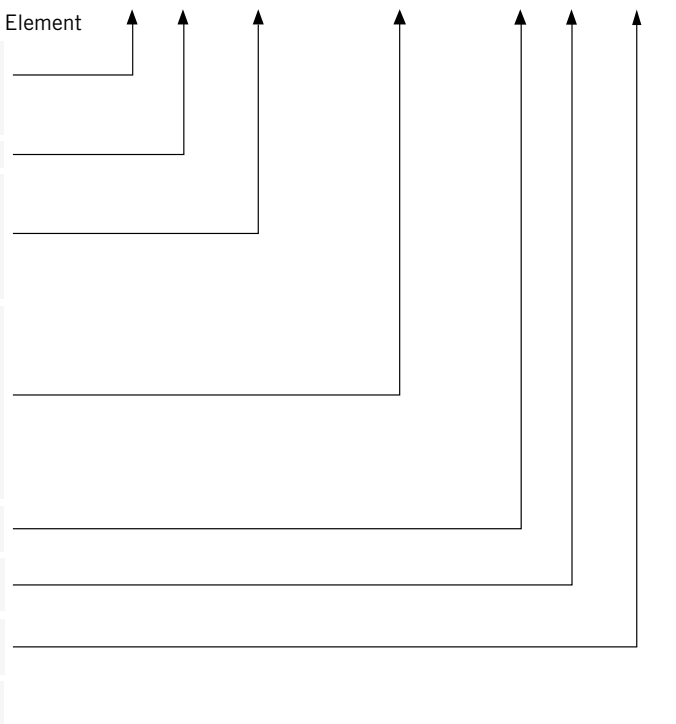
- B = connection head BL
- D = connection head DAN
- D/H = connection head DAN, cover with snap lock (standard)
- D/W/H = connection head high, cover with snap lock
- EXD = connection head ATEX
- HST = acid proof connection head
- N = connection head NA

- 4,3,2 = Pt 100 number of connection wires
- K,N,J = TC type of thermocouple

- A,B = Pt100 precision class A (STANDARD)
- 1,2,3 = TC accuracy class 1 (STANDARD)

- TR = free wires for transmitter
- CB = with ceramic terminal block

- X = additional details on the text line



Connection heads

