

Threaded Temperature Sensor T-B-Ø / W-B-Ø according to DIN 43772 form 2G

Features

- temperature range -200...+1200 °C
- Pt100 or thermocouple
- thermowell material according to the application
- Pt100, 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-verssions, Ex i and Ex d available

Typical Applications

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



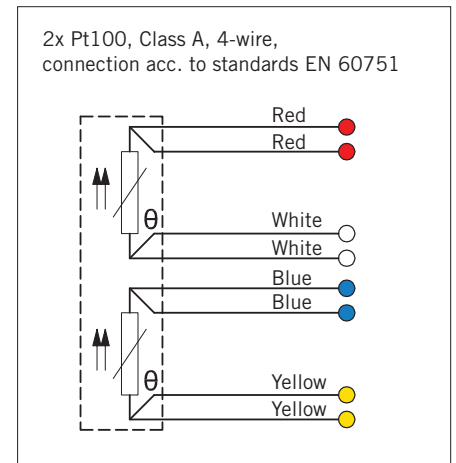
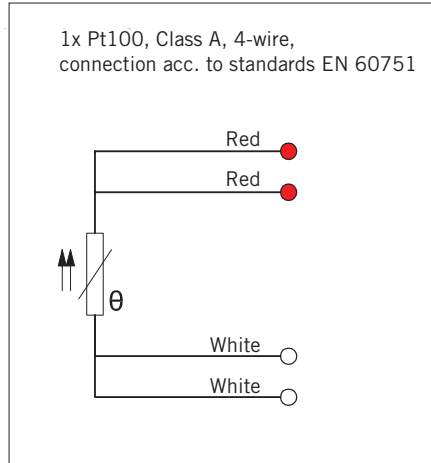
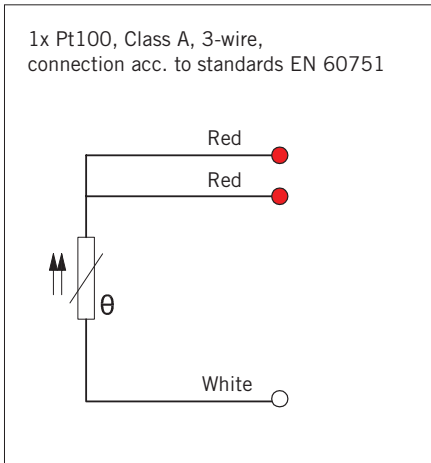
Technical data

| | | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Thermowell Material | AISI, max. temp. +550 °C, temporarily +850 °C Heat-resistant steel 1.4841, max. temp. +1100 °C, temporarily +1200°C | |
| Standard thread options | G, R, NPT, M, others on request | |
| 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...+550 °C | |
| Temperature range TC | -200...+1200 °C depending on thermocouple type HL = 250 mm -> temp. max. +750 °C HL = 300 mm -> temp. max. +1000 °C HL = 350 mm -> temp. max. +1200 °C | TC = thermocouple HL = cooling neck |
| Approvals | ATEX, GOST-R, METROLOGICAL PATTERN APPROVAL, ROSTECHNADZOR | |
| Quality certificate | ISO 9001:2008 issued by DNV | |
| IP-class | IP65, higher IP-class on request | |

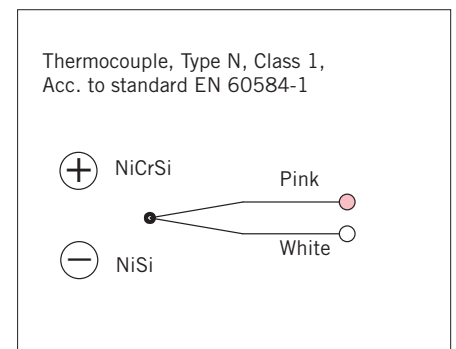
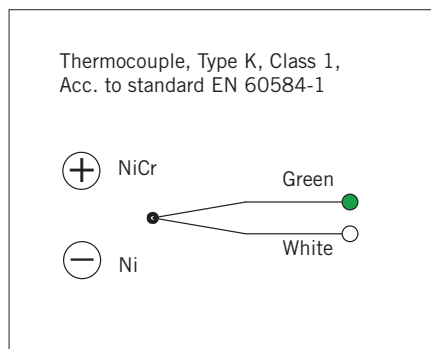
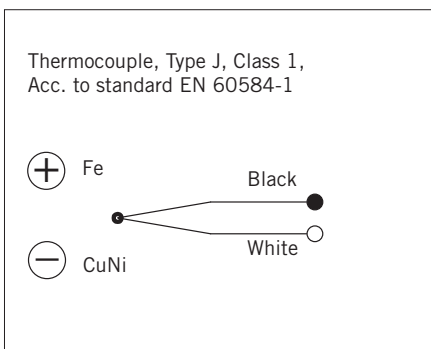


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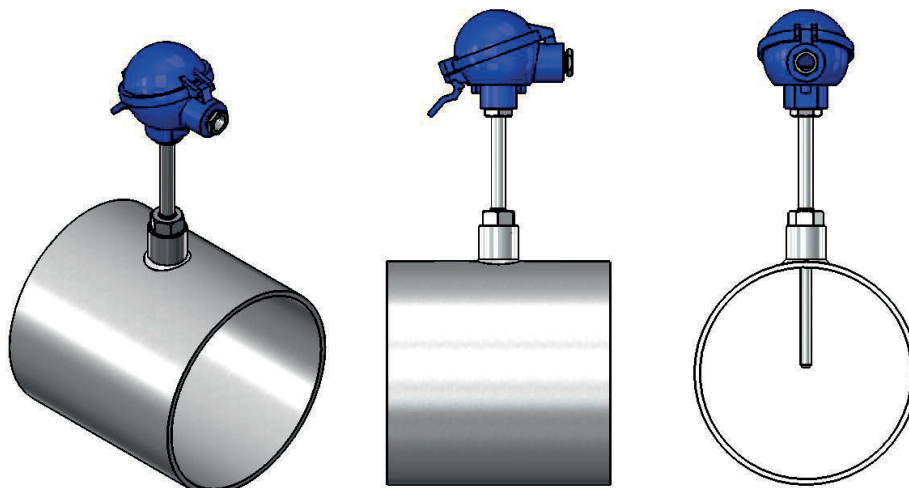
Pt 100 Connections



Thermoelement connections

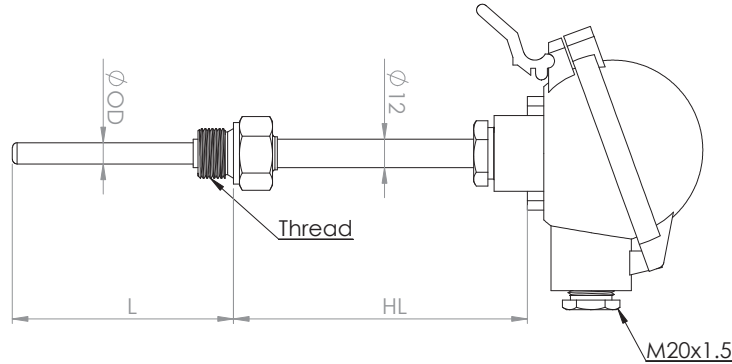


Installation examples

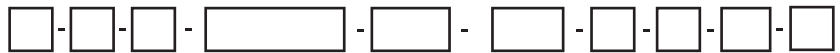


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Drawing



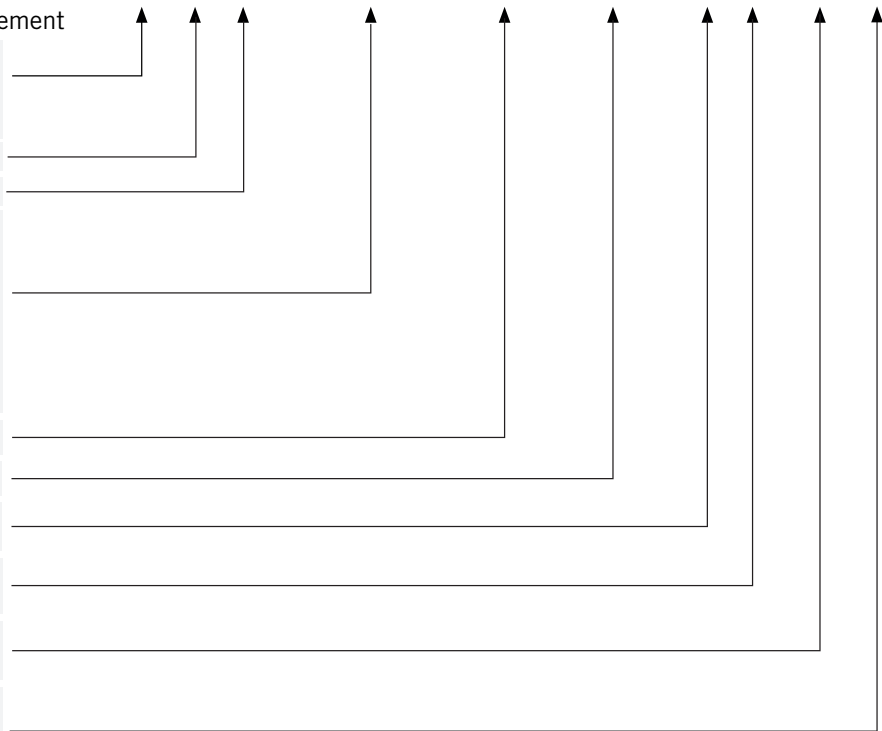
Product code key



Example code: W - B - 9 - D / W / H - 160 - G½" - 4 - A - TR - X

Well + Pt100/Thermocouple Sensing Element

| | |
|-------|--------------------------------------------------------|
| W | = Pt100 resistance sensor |
| 2xW | = 2xPt100 resistance sensor |
| T | = Thermocouple |
| 2xT | = 2 x Thermocouple |
| B | = coupling thread |
| 9 | = well diameter (mm) |
| 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 |
| 160 | = immersion depth (mm) |
| G½" | = thread size |
| 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

