

EPIC® SENSORS T-F / W-F

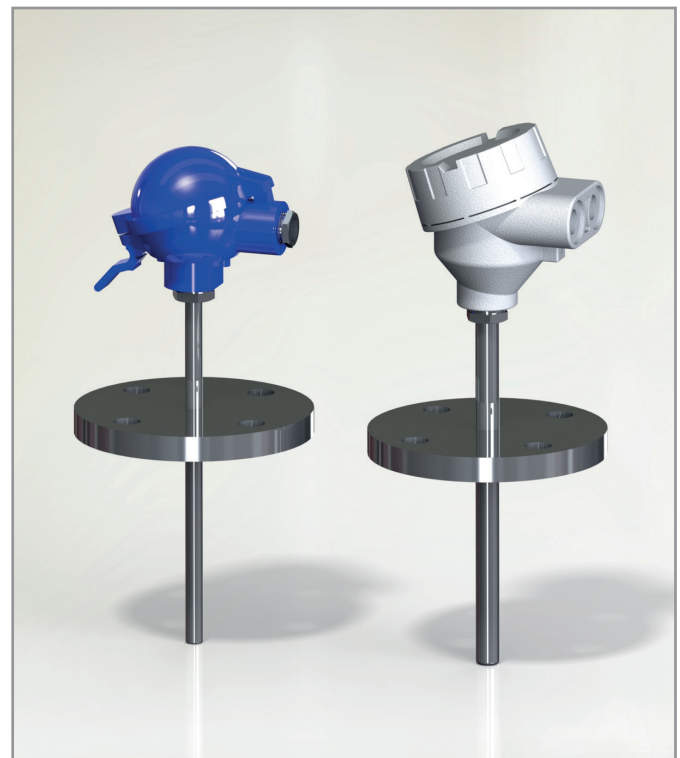
Flanged temperature sensor

Features

- according to DIN 43772 form 2F
- temperature range -200...+1200 °C
- neck pipe for heat source clearance
- AISI 316L as standard delivery material, other materials on request
- Pt100 or thermocouple as sensing element
- Pt100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- MI cable structured sensor element
- internal sensor element replaceable on the fly
- flange size and type according to customer application
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex db and Ex i versions available
- typical neck pipe length 145 mm, other lengths on request
- 3D step models available on request.

Typical applications

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

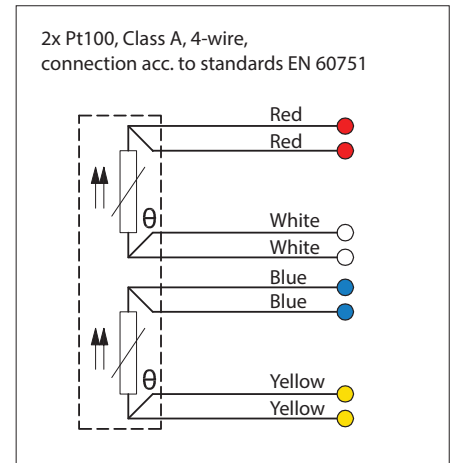
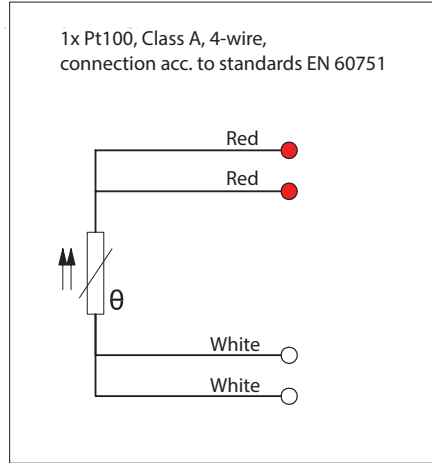
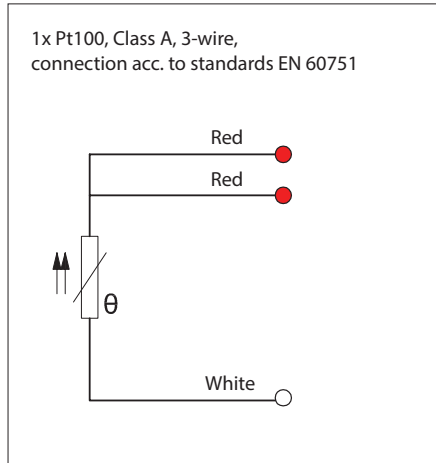


Technical data

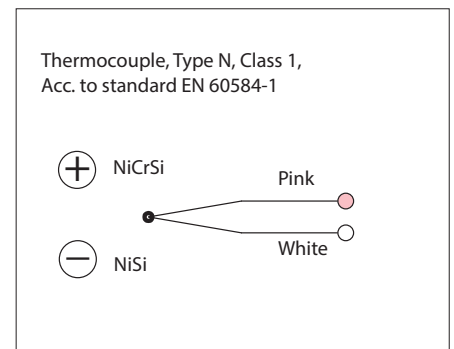
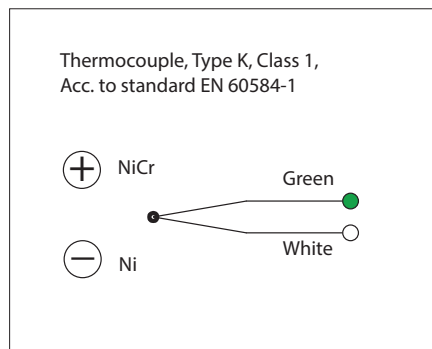
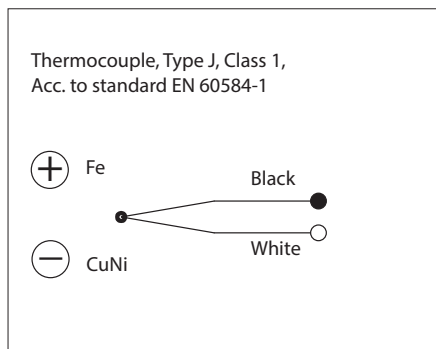
| | |
|--|---|
| Thermowell materials | AISI 316L, maximum temperature +550 °C, temporarily +600 °C, Other materials on request |
| Flange | Flat face DIN EN 1092 -1, type 05A, other flange types on request |
| Tolerances Pt100 (IEC 60751) | A tolerance $\pm 0.15 + 0.002 \times t$, operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$, operating temperature -196...+600 °C B 1/3 DIN, tolerance $\pm 1/3 \times (0.3 + 0.005 \times t)$, operating temperature -196...+600 °C B 1/10 DIN, tolerance $\pm 1/10 \times (0.3 + 0.005 \times t)$, operating temperature -196...+600 °C |
| Tolerances thermocouple (IEC 60584) | Type J tolerance class 1 = -40...375 °C ± 1.5 °C, 375...750 °C $\pm 0.004 \times t$ Type K and N tolerance class 1 = -40...375 °C ± 1.5 °C, 375...1000 °C $\pm 0.004 \times t$ |
| Temperature range Pt100 | -200...+550 °C |
| Temperature range thermocouple | -200...+1200 °C, depending on thermocouple type and cooling neck length Neck pipe length = 250 mm → temp. max. +750 °C Neck pipe length = 300 mm → temp. max. +1000 °C Neck pipe length = 350 mm → temp. max. +1200 °C |
| Approvals | ATEX, IECEx, EAC Ex, EAC EMC, METROLOGICAL PATTERN APPROVAL |
| Quality certificate | ISO 9001:2015 and ISO 14001:2015 issued by DNV |
| IP rating | IP65, higher IP rating on request |

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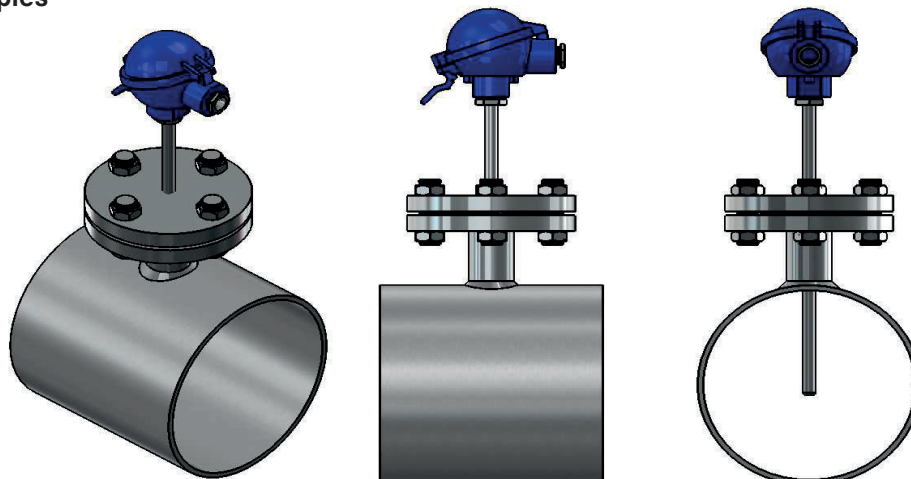
Pt 100 connections



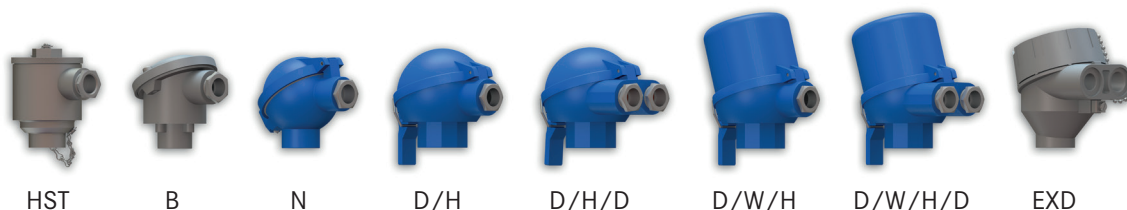
Thermoelement connections



Installation examples

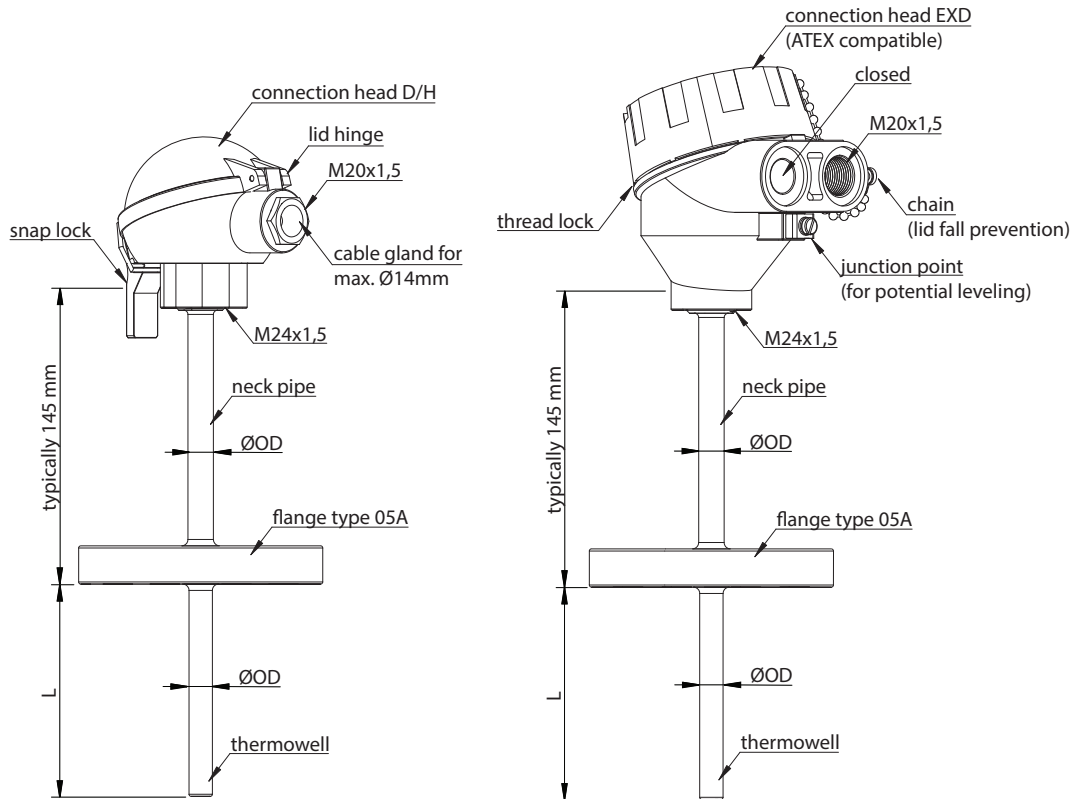


Connection heads



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Drawing



Product code key

Example code: W — F — 11 — D/H — 100 — DN50/PN40 — 4 — A — TR — X

| | |
|------------|--|
| W | = Pt100 resistance thermometer |
| 2xW | = 2 x Pt100 resistance thermometer |
| T | = thermocouple |
| 2xT | = 2 x thermocouple |
| F | = sensor with flange (constant in code) |
| 11, 15, 22 | = thermowell outer diameter (ØOD) [mm] (other diameters on request) |
| B | = connection head B |
| D/H | = connection head with snap lock |
| D/H/D | = connection head with snap lock and double barrel (2x cable gland) |
| D/W/H | = high cover connection head with snap lock |
| D/W/H/D | = high cover connection head with snap lock and double barrel (2x cable gland) |
| EXD | = ATEX-compatible connection head |
| HST | = acid proof connection head |
| N | = connection head N |
| 100 | = length, L [mm] |
| DN25/PN40 | = flange size / flange thickness |
| DN50/PN40 | (only typical stocked values listed) |
| DN80/PN40 | (all flange sizes available) |
| 4,3,2 | = Pt100 wire count |
| K,N,J | = thermocouple type |
| A,B | = Pt100 accuracy class, (class A as standard delivery) |
| 1,2,3 | = thermocouple accuracy class, (class 1 as standard delivery) |
| TR | = wires for transmitter connection |
| CB | = with ceramic terminal block |
| EXI | = Ex i certified sensor |
| X | = additional details on the text line |

