

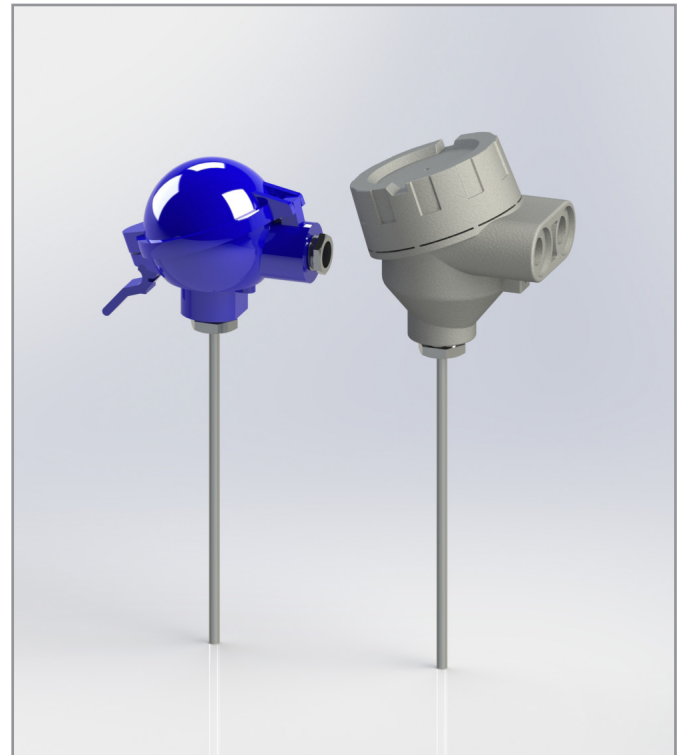
**EPIC® SENSORS T-M-N / W-M-N**  
**Mineral insulated insert with connection head**

**Features**

- according to DIN 43721
- temperature range -200...+1200 °C
- AISI 316L or INCONEL 600 as standard delivery material, other materials on request
- Pt 100 or thermocouple as sensing element
- Pt 100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- MI cable structured sensor element
- bendable
- vibration proof
- typically used with compression fitting
- adjustable immersion length can be achieved
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex db and 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.

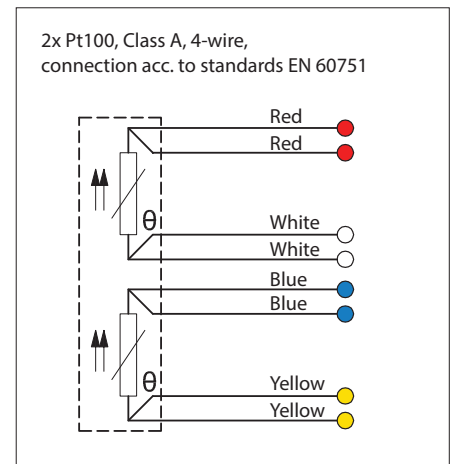
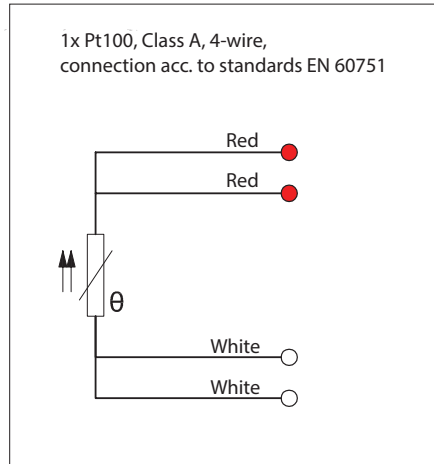
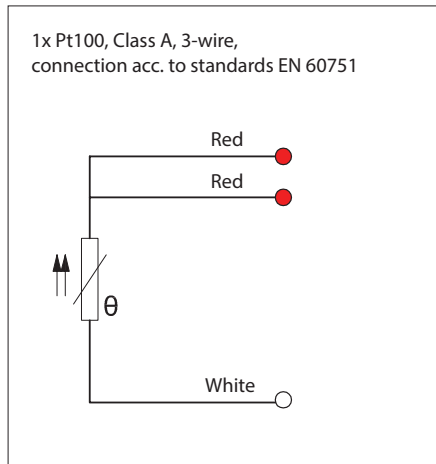


**Technical data**

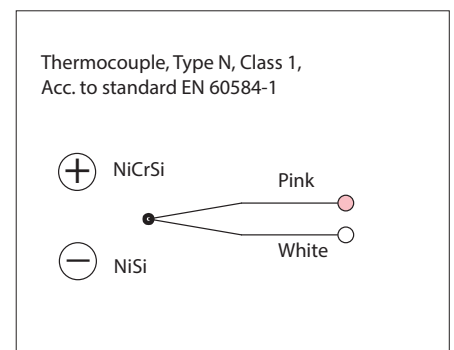
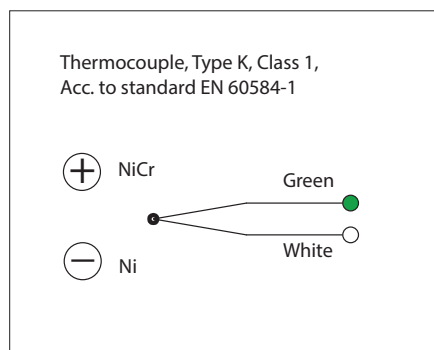
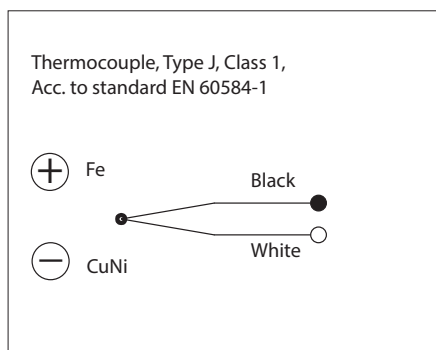
<b>Materials</b>	AISI 316L, maximum temperature +550 °C, temporarily +600 °C, INCONEL 600, maximum temperature +1100 °C, temporarily +1200 °C Other materials on request
<b>Tolerances Pt 100 (IEC 60751)</b>	A tolerance $\pm 0.15 + 0.002 \times t$ , operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$ , 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
<b>Tolerances thermocouple (IEC 60584)</b>	Type J tolerance class 1 = -40...375 °C $\pm 1.5$ °C, 375...750 °C $\pm 0.004 \times t$ Type K and N tolerance class 1 = -40...375 °C $\pm 1.5$ °C, 375...1000 °C $\pm 0.004 \times t$
<b>Temperature range Pt 100</b>	-200...+550 °C, depending on sensor element material and length
<b>Temperature range thermocouple</b>	-200...+1200 °C, depending on thermocouple type, sensor element material and length
<b>Approvals</b>	ATEX, IECEx, EAC Ex, EAC EMC, METROLOGICAL PATTERN APPROVAL
<b>Quality certificate</b>	ISO 9001:2015 and ISO 14001:2015 issued by DNV
<b>IP rating</b>	IP65, higher IP rating on request

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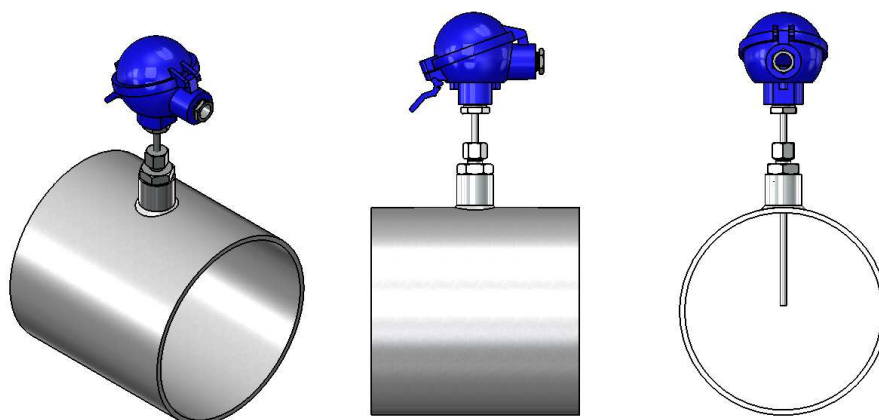
**Pt100 connections**



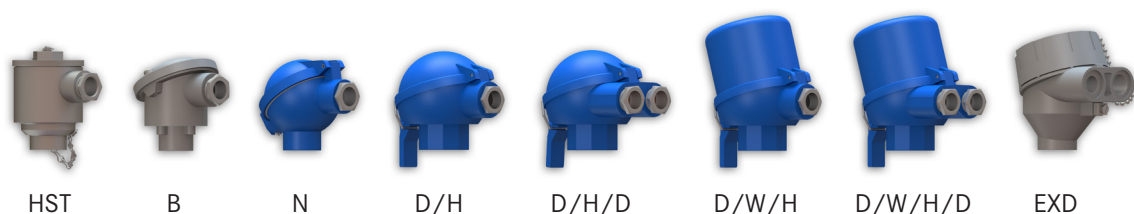
**Thermoelement connections**



**Installation examples**

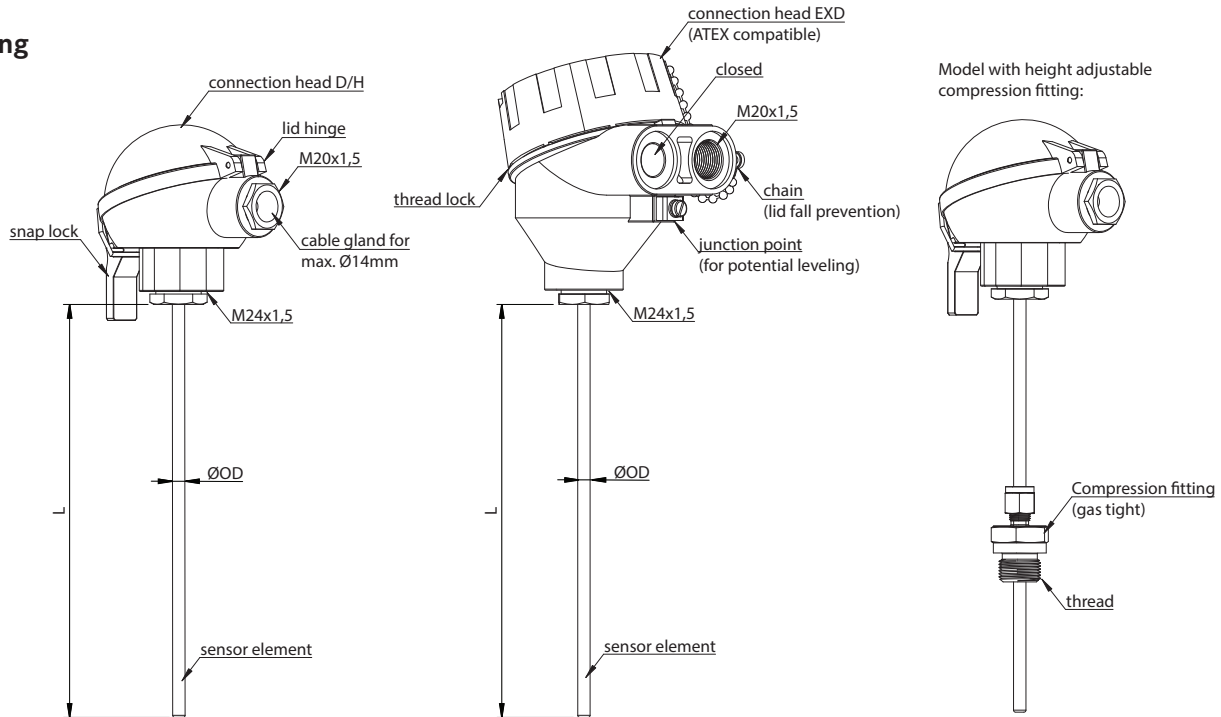


**Connection heads**



**EPIC® SENSORS T-M-N / W-M-N**  
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**Drawing**



**Product code key**

Example code: **T — M — D/H — M18x1,5 — L / 6 / 1000 — K — 1 — CB — X**

W	= Pt100 resistance thermometer	
2xW	= 2 x Pt100 resistance thermometer	
T	= thermocouple	
2xT	= 2 x thermocouple	
M	= mineral insulated sensor (constant in code)	
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	
M18x1,5	= thread of compression fitting	
empty	= no compression fitting	
L	= with height adjustable compression fitting	
6, 8	= outer diameter of sensor element (ØOD) [mm] (other diameters on request)	
1000	= length, L [mm]	
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	

**T-M-D/W/H-6/5000-N-1-TR**

Thermocouple, mineral insulated sensor type with connection head D/W/H, no thread between the sensor element and connection head, no compression fitting in the sensor element, the sensor element's diameter is 6 mm and length 5000 mm, thermocouple type N with accuracy class 1, connection head suitable for mA current transmitter housing.