

**EPIC® SENSORS T-M-Ø / W-M-Ø**

**Mineral insulated element**

**Features**

- similar to DIN 43762
- temperature range -200...+1200 °C
- Pt100 or thermocouple as sensing element
- AISI 316L or INCONEL 600 as standard delivery material, other materials on request
- Pt100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- MI cable structured sensor element
- bendable
- tailored solutions according to customer specific needs.

**Typical applications**

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

**Special applications**

- for very high temperature solutions we can offer special thermocouple inserts with ceramic tubing and platinum wiring up to +1600 °C
- for this type of insert please contact our sales.

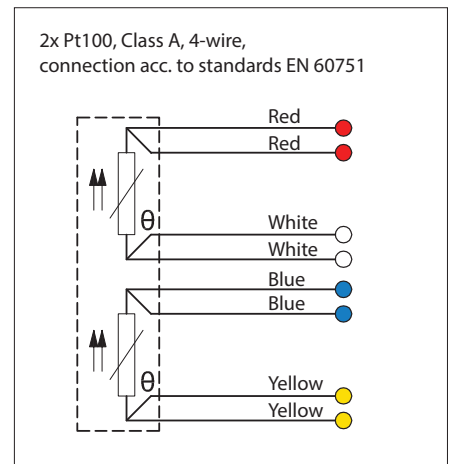
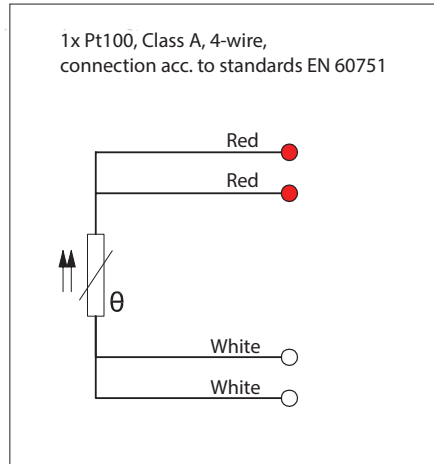
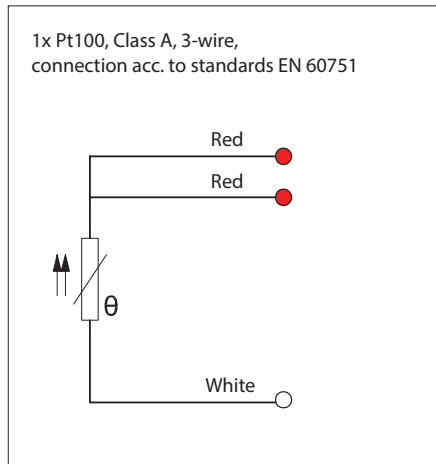


**Technical data**

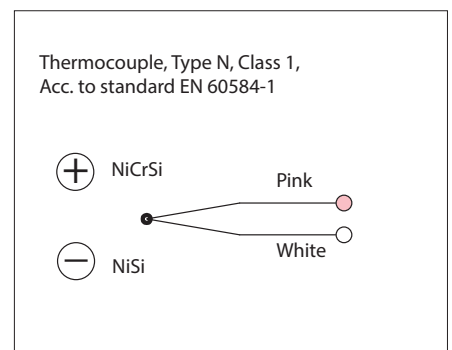
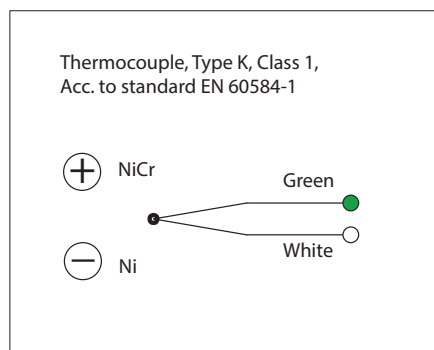
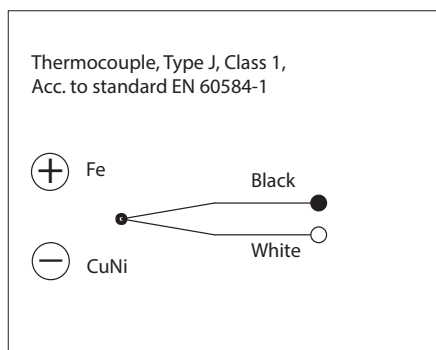
<b>Materials</b>	AISI 316L, max. temperature +550 °C, temporarily +600 °C INCONEL 600, max. temperature +1100 °C, temporarily +1200 °C Other materials on request
<b>Tolerances Pt100 (IEC 60751)</b>	A tolerance $\pm 0.15 + 0.002 \times t$ , operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$ , 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 Pt100</b>	-200...+550 °C, depending on sensor housing materials
<b>Temperature range thermocouple</b>	-200...+1200 °C, depending on thermocouple type and sensor housing materials
<b>Approvals</b>	METROLOGICAL PATTERN APPROVAL
<b>Quality certificate</b>	ISO 9001:2015 issued by DNV
<b>IP rating</b>	IP65, higher IP rating on request

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**Pt100 connections**

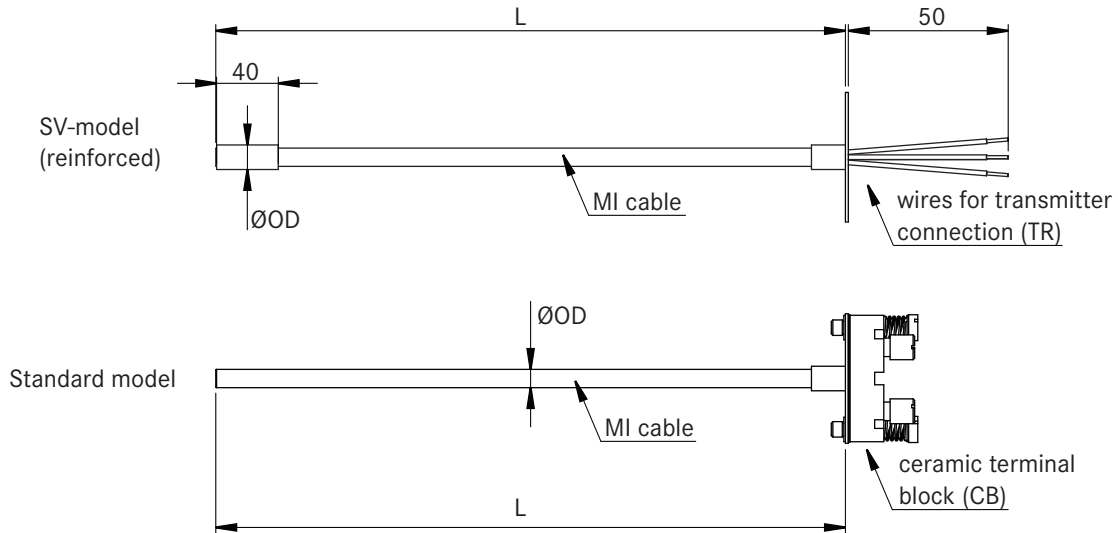


**Thermoelement connections**



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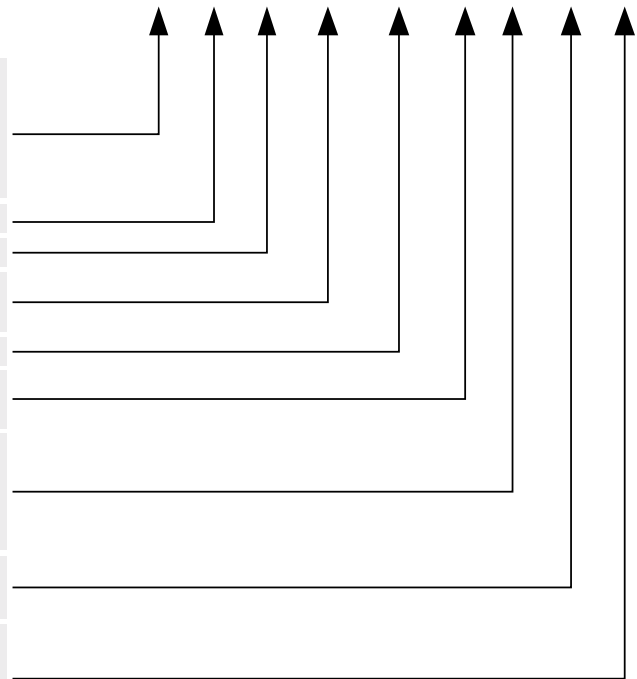
**Drawing**



**Product code key**

Example code: **W - M - 6 - / 315 - 4 - A - TR - X**

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
T	= thermocouple
2xT	= 2 x thermocouple
M	= mineral insulated sensor (constant in code)
3, 6, 8	= outer diameter of MI cable ( $\varnothing OD$ ) [mm]
empty	= even thickness (as standard delivery)
SV	= thick wall in measure end
315	= 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
X	= additional details on the text line



**W-M-6/315-3-A-CB**

Pt100 resistance thermometer for 3 wire measurement, Pt100 with accuracy class A, mineral insulated element with diameter 6 mm and length 315 mm, ceramic block for cable connection.

**T-M-6-SV/1500-K-1-TR**

Thermocouple type K with accuracy class 1, mineral insulated element with diameter 6 mm and length 1500 mm, reinforced structure, connection head has space for housing, mA current transmitter block.