

EPIC® SENSORS W-M-TRACE or 2x W-M-TRACE

Trace heating sensor

Features

- temperature range -60...+450 °C, temporarily +550 °C
- temperature range -40...+80 °C for standard delivery enclosure
- Pt 100 as sensing element
- Pt 100 accuracy class A as standard delivery
- 1 or 2 measurement points
- replaceable sensor elements
- AISI 316L as standard delivery material for the sensor elements, other materials on request
- components are available as ATEX compatible Ex e, however subsequent approval of the entity is required
- tailored solutions according to customer specific needs.

Typical applications

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



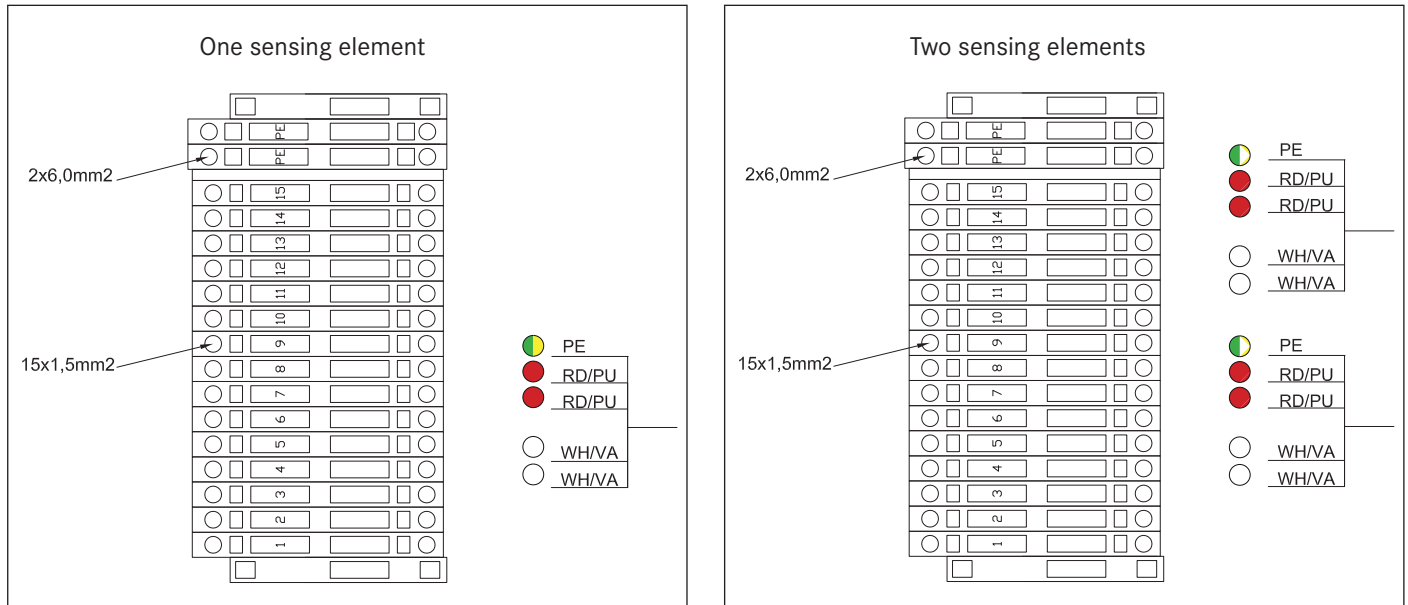
Technical data

Materials	AISI 316L, maximum temperature +450 °C, temporarily +550 °C, other materials on request
Tolerances Pt 100 (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
Temperature range Pt 100	-60...+450 °C, temporarily +550 °C
Sensing element classification	II 2 GD Ex e T1-T6 Ex tD A21 IP66 T 60 °C T amb (max.) -40...+125/550 °C
Length	1000 or 2000 mm as standard delivery, other lengths on request
Diameter	3 or 6 mm, other diameters on request
Enclosure dimensions	160x160x90 mm (WxHxD)
Enclosure material	Glass-reinforced polyester as standard delivery, other materials on request
Enclosure classification	II 2 GD Ex e IIC T6 Gb (Ta = -65...+40 °C, +55 °C, +60 °C or +65 °C) Ex e IIC T4 Gb (Ta = -65 °C...+90 °C) Ex Ib IIC T6 Gb (Ta = -65 °C...+40 °C, +55 °C, +60 °C or +65 °C) Ex Ib IIC T4 Gb (Ta = -65 °C...+90 °C) Ex tb IIIC T85 °C Db (Ta = -65 °C...+40 °C, +55 °C, +60 °C or +65 °C) Ex tb IIIC T100 °C Db (Ta = -65 °C...+90 °C)
Box temperature range	-40...+80 °C
Cable glands	Product with 2 sensing elements: 1 x cable gland, M25x1.5, for cable diameters 6-13 mm Product with 1 sensing element: 2 x cable gland, M25x1.5, for cable diameter 6-13 mm
Approvals	Available with Ex e approved components, subsequent approval of the entity is required.
Quality certificate	ISO 9001:2015 issued by DNV-GL
IP rating	IP66 or IP67, other IP rating on request

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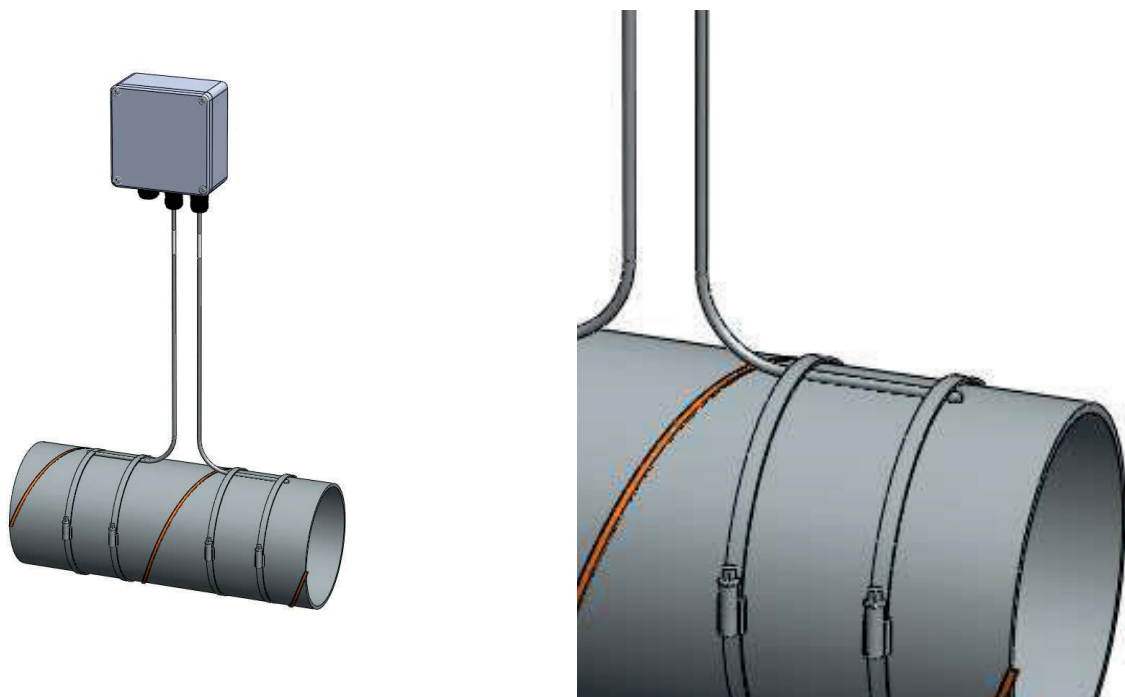
Trace heating sensor

Pt 100 connections



Wires are not connected. The connections can be done according to customer specifications.

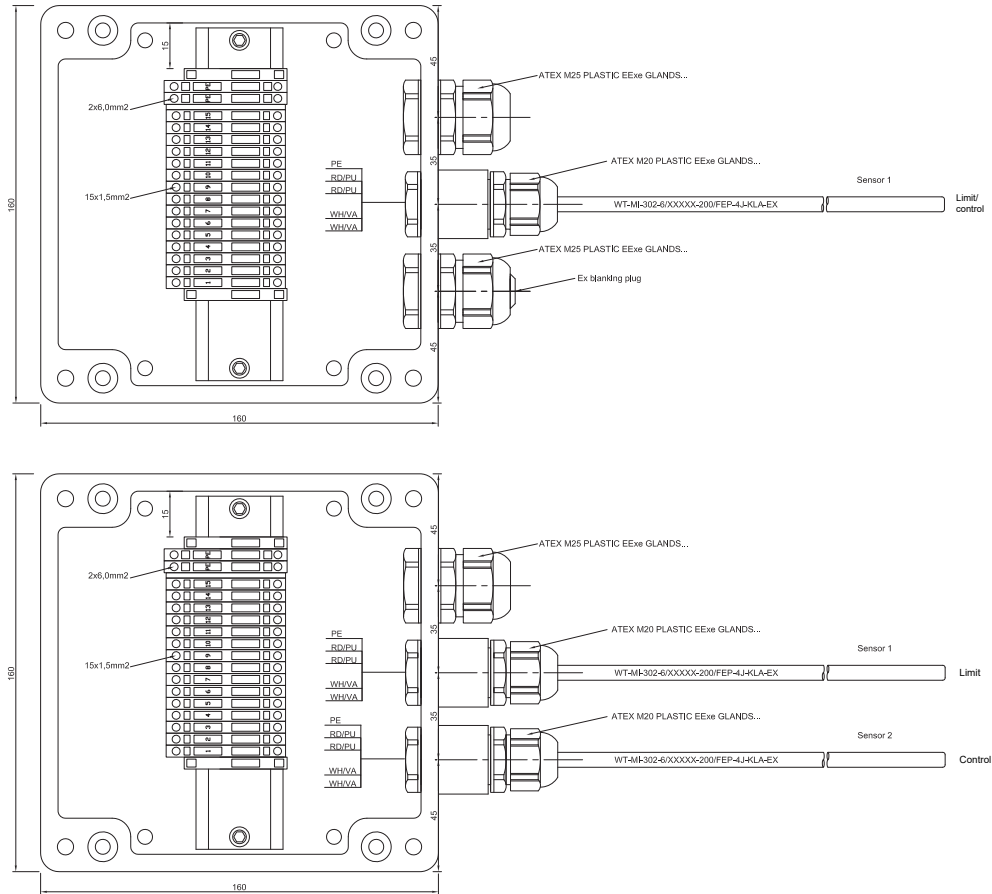
Installation examples



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Trace heating sensor

Drawing



Product code key

Example code: **W — M — TRACE — 6 / 1000 — 4 — A — EX — X**

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
M-TRACE	= mineral insulated trace heating sensor (constant in code)
3, 6	= outer diameter of sensor element (ØOD) [mm]
1000	= sensor element length, L [mm]
4, 3, 2	= Pt100 wire count
A, B	= Pt100 accuracy class, (class A as standard delivery)
empty	= no Ex e -approval
EX	= Ex e -approved components
X	= additional details on the text line

