# **EPIC<sup>®</sup> 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
- Pt100 as sensing element
- Pt100 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
- 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**

*) Materials	AISI 316L, maximum temperature +450 °C, temporarily +550 °C, other materials on request
Tolerances Pt100 (IEC 60751)	AA tolerance $\pm 0.1 + 0.0017 \text{ x}$ t, operating temperature $-50+250 \text{ °C}$ A tolerance $\pm 0.15 + 0.002 \text{ x}$ t, operating temperature $-100+450 \text{ °C}$ B tolerance $\pm 0.3 + 0.005 \text{ x}$ t, operating temperature $-196+600 \text{ °C}$ B 1/3 DIN, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature $-196+250 \text{ °C}$
*) Temperature range Pt100	-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 lb IIC T6 Gb (Ta = -65°C+40°C, +55°C, +60°C or +65°C) Ex lb 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, ISO 14001:2015 and ISO 45001:2018 issued by DNV
IP rating	IP66 or IP67, other IP rating on request

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## Pt100 connections



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

Installation examples





# EPIC<sup>®</sup> SENSORS W-M-TRACE or 2x W-M-TRACE

Trace heating sensor

#### Drawing



## Product code key

