DATASHEET 5

EPIC® SENSORS T-H-12 / W-H-12

Threaded temperature sensor with neck pipe and sensing element

Features

- temperature range -200...+1200 °C
- · neck pipe for heat source clearance
- thread attachable to thermowell or process
- 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
- internal sensor element replaceable on the fly
- standard delivery length for sensor element is 315, 375 or 435mm, other lengths available on request
- neck pipe length 165 mm as standard delivery, other lengths on request
- 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

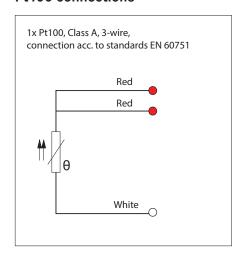
Thread	M14x1.5 or M18x1.5 thread as standard delivery, other threads on request
Internal sensor element diameter	3, 6 or 8 mm
Tolerances Pt100 (IEC 60751)	A tolerance $\pm 0.5 + 0.002 \times t$, operating temperature -100+450 °C B tolerance $\pm 0.3 + 0.005 \times t$, operating temperature -196+600 °C 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 = -40375 °C \pm 1.5 °C, 375750 °C \pm 0.004 x t Type K and N tolerance class 1 = -40375 °C \pm 1.5 °C, 3751000 °C \pm 0.004 x t
Temperature range Pt 100	-200+550 °C
Temperature range thermocouple	-200+1200 °C depending on thermocouple type, thermowell materials 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

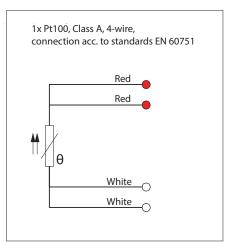
DATASHEET 5

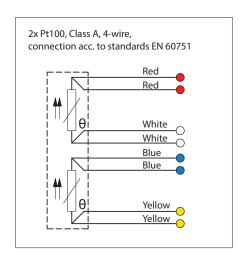
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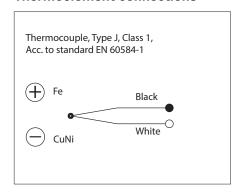
Pt100 connections

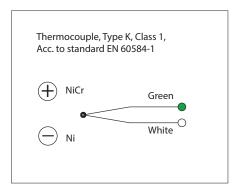


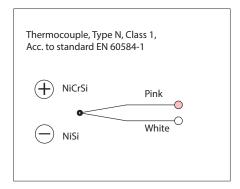




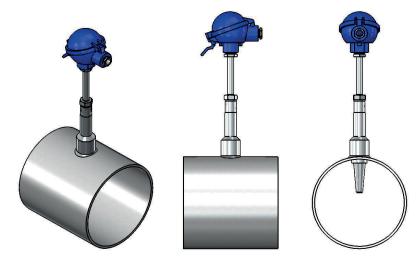
Thermoelement connections







Installation examples



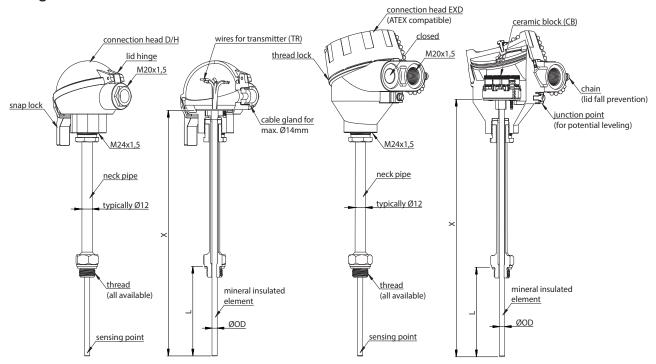
Connection heads



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Drawing



Product code key

