EPIC® SENSORS W-K-F / W-M-F

Indoor/outdoor resistance temperature sensor

Features

- temperature range -40...+80 °C
- Pt100 as sensing element
- Pt100 accuracy class A as standard delivery
- fast response time
- can be supplied with mA transmitter
- available with plastic or metal housing
- tailored solutions according to customer specific needs
- thermocouple versions available on request
- 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

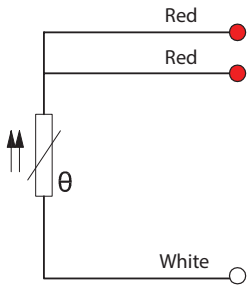
Enclosure	Plastic enclosure dimensions 120x80x58 mm (W x H x D), Metal enclosure dimensions 80x75x58 mm (W x H x D) Other enclosures on request
Tolerances Pt100 (IEC 60751)	AA tolerance ±0.1 + 0.0017 x t, operating temperature -50...+250 °C A tolerance ±0.15 + 0.002 x t, operating temperature -100...+450 °C B tolerance ±0.3 + 0.005 x t, operating temperature -196...+600 °C B 1/3 DIN, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature -196...+250 °C
Temperature range Pt100	-40...+80 °C, other measurement ranges on request
Approvals	ATEX, IECEx
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV
IP rating	IP65, higher IP rating on request

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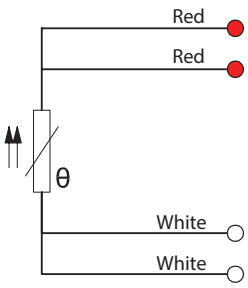
Indoor/outdoor resistance temperature sensor

Pt100 connections

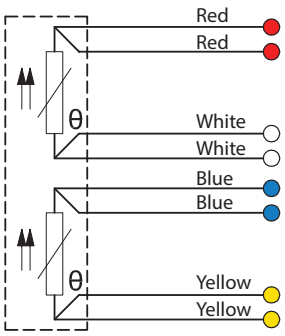
1x Pt100, Class A, 3-wire,
connection acc. to standards EN 60751



1x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751



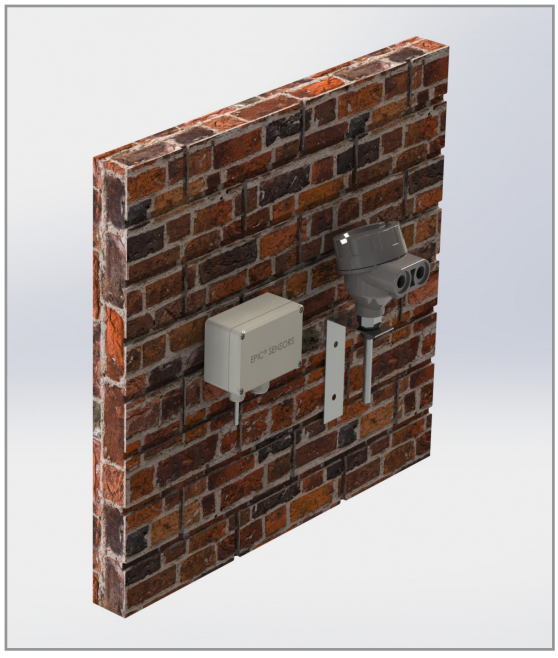
2x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751



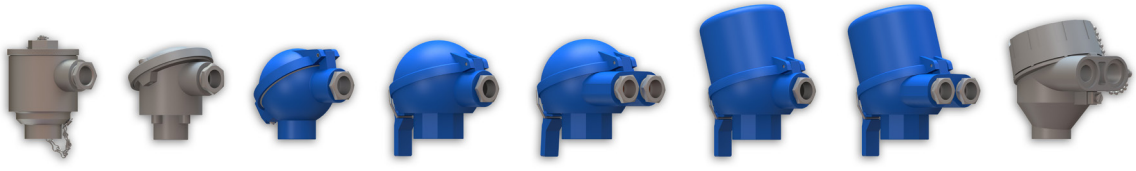
Installation examples







Connection heads



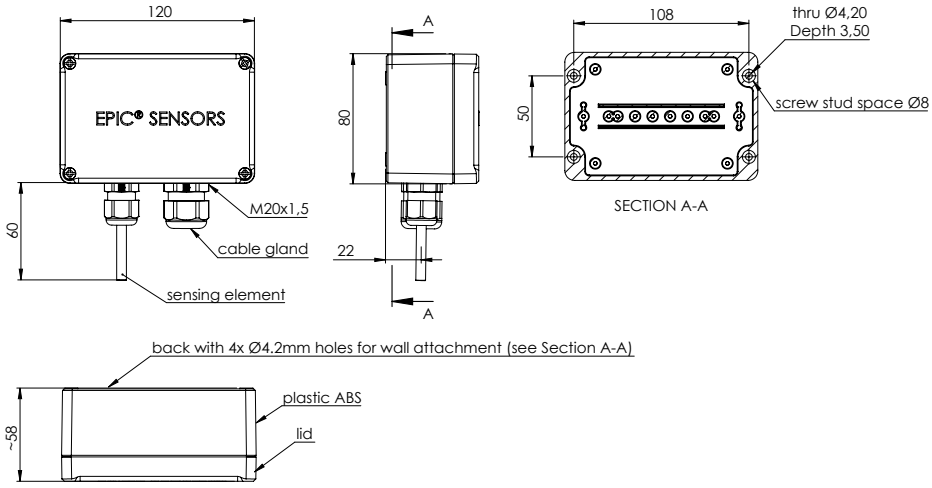
HST B N D/H D/H/D D/W/H D/W/H/D EXD

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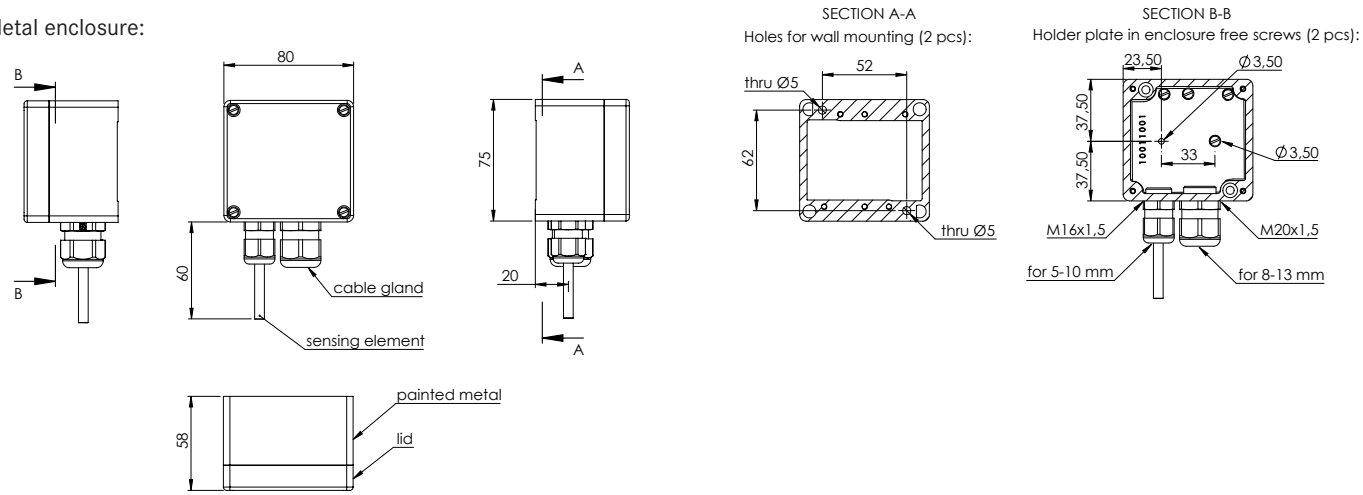
Indoor/outdoor resistance temperature sensor

Drawing

Plastic enclosure:



Metal enclosure:



Product code key

Example code: W — K — F — 4 — A — TR — X

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
K	= plastic enclosure
M	= metallic enclosure
F	= sensor type (constant in code)
4,3,2	= Pt100 wire count
A, B	= Pt100 accuracy class (class A as standard delivery)
TR	= wires for transmitter connection
CB	= with connection terminal block
EXI	= Ex i certified sensor type, only with metallic enclosure
X	= additional details on text line
	Ex d -versions: contact our sales.