

## EPIC® SENSORS W-H-12 / T-H-12

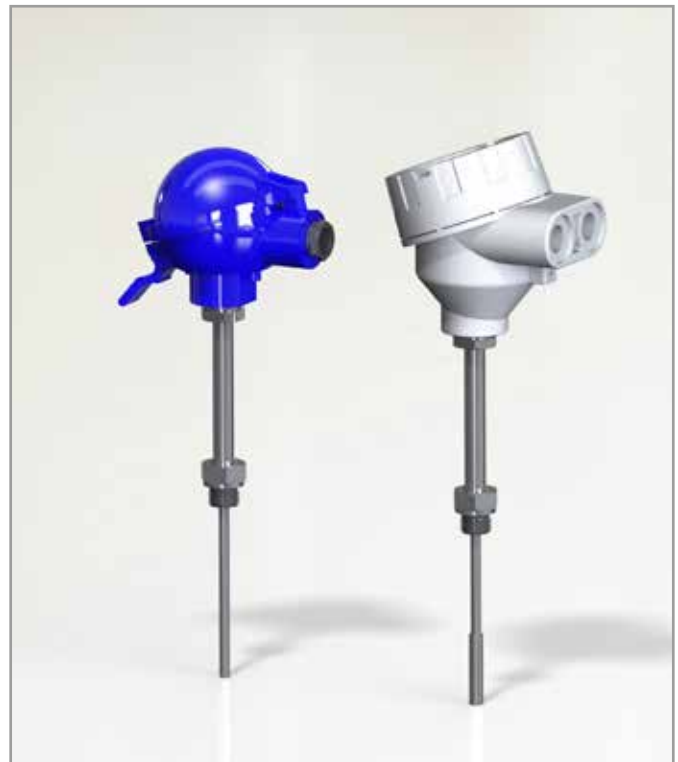
### Threaded temperature sensor

#### Features

- Temperature range -200...+1200 °C
- Pt 100 or thermocouple
- Fits to welded well
- Length of sensing insert 315, 375 or 435mm, others on request
- Pt 100, accuracy class A, as a standard, more accurate on request
- TC, class 1 as a standard
- Replaceable inner element, MI-construction
- Tailored solutions according to specific needs
- ATEX-version Ex db also available
- Standard cooling neck length 145 mm, others on request.

#### Typical Applications

- Energy and power plant technology
- Process industry
- Chemical industry
- Machinery, plant and vessel construction.



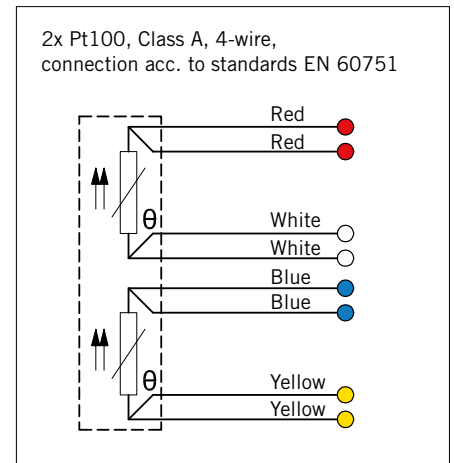
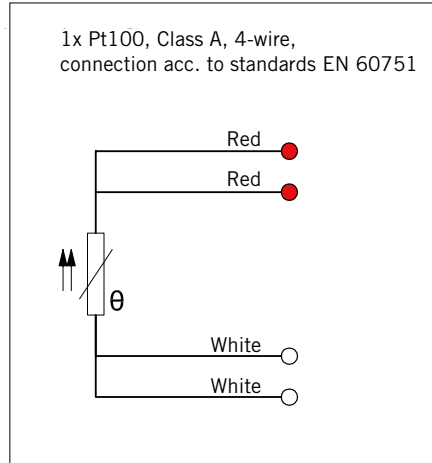
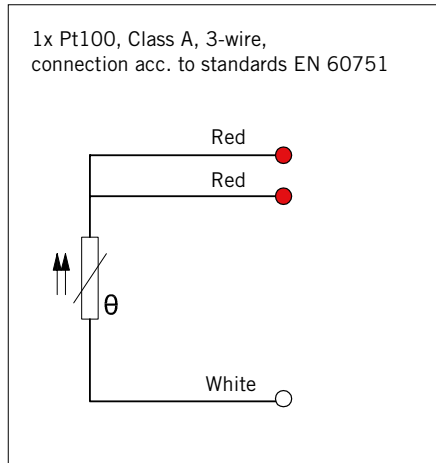
#### Technical data

<b>Connection thread</b>	M14x1.5, M18x1.5, others on request.
<b>Inner element diameter</b>	3, 6 or 8 mm.
<b>Tolerances Pt100 (IEC 60751)</b>	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
<b>Tolerances TC (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
<b>Temperature range TC</b>	-200...+1200 °C depending on thermocouple type and thermowell material
<b>Approvals</b>	ATEX, METROLOGICAL PATTERN APPROVAL
<b>Quality certificate</b>	ISO 9001:2015 issued by DNV
<b>IP-class</b>	IP65, higher IP-class on request

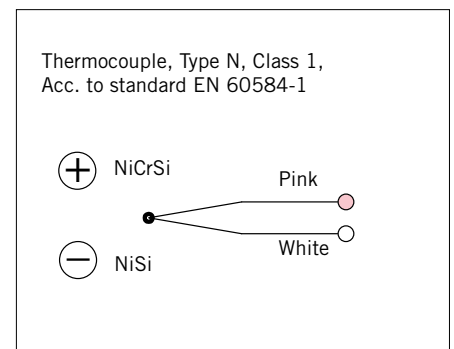
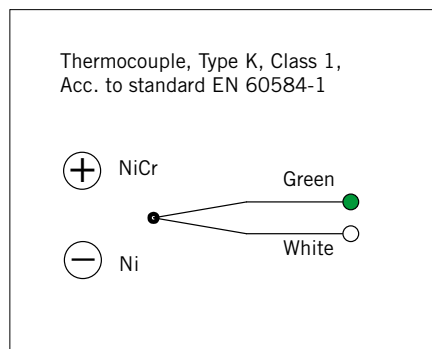
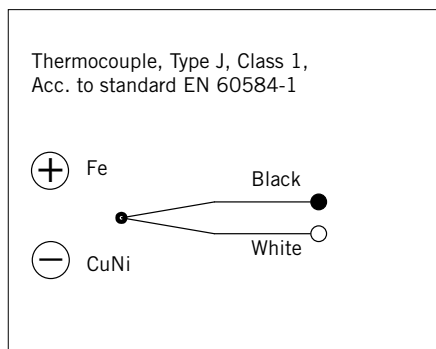
**EPIC® SENSORS W-H-12 / T-H-12**

**Threaded temperature sensor**

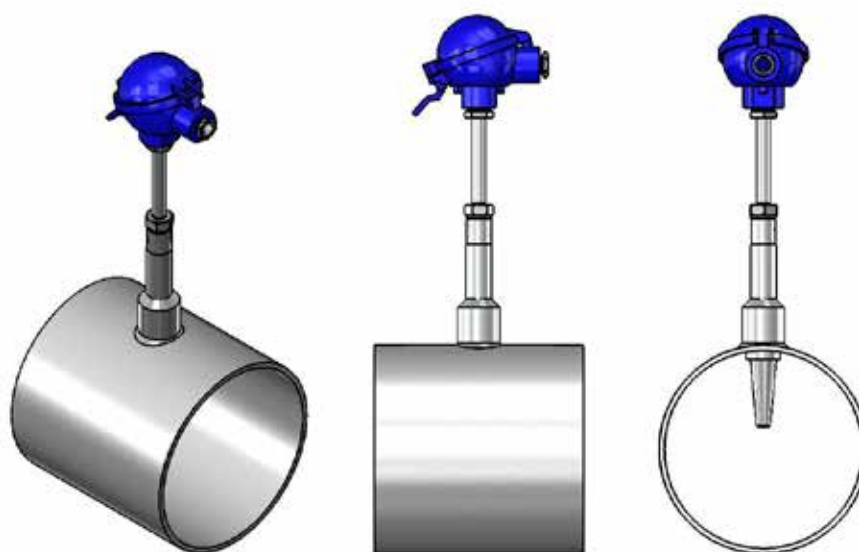
**Pt100 connections**



**Thermoelement connections**



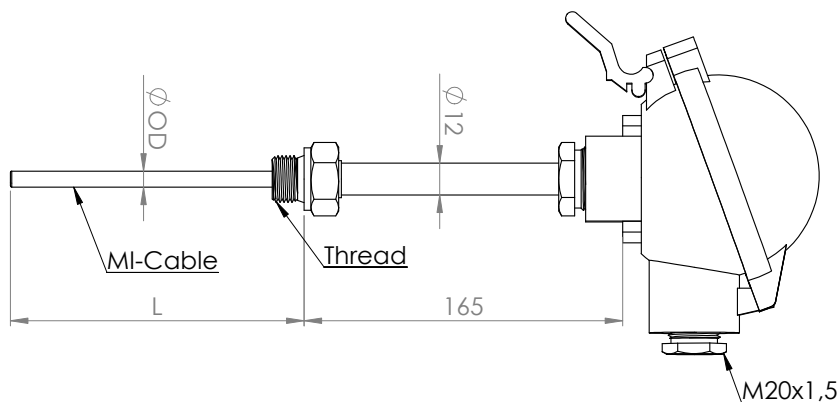
**Installation examples**



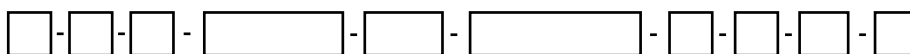
**EPIC® SENSORS W-H-12 / T-H-12**

**Threaded temperature sensor**

**Drawing**



**Product code key**



**Example code:** W - H - 12 - D / W / H - G<sup>1/2</sup>" - 6 / 375 / 200 - 4 - A - TR - X

**Cooling neck**

**+ Pt100/Thermocouple Sensing Element**

- W = Pt100 resistance sensor
- 2xW = 2xPt100 resistance sensor
- T = Thermocouple
- 2xT = 2 x Thermocouple

- H = cooling neck with thread
- 12 = cooling neck diameter (mm)

- B = connection head BL
- D = connection head DAN
- D/H = connection head DAN, cover with snap lock (standard)
- D/W/H = connection head high, cover with snap lock
- EXD = connection head ATEX
- HST = acid proof connection head
- N = connection head NA

M18x1.5 = thread size

6 = ØOD = diameter of sensing element (mm)

375 = length of element (mm)

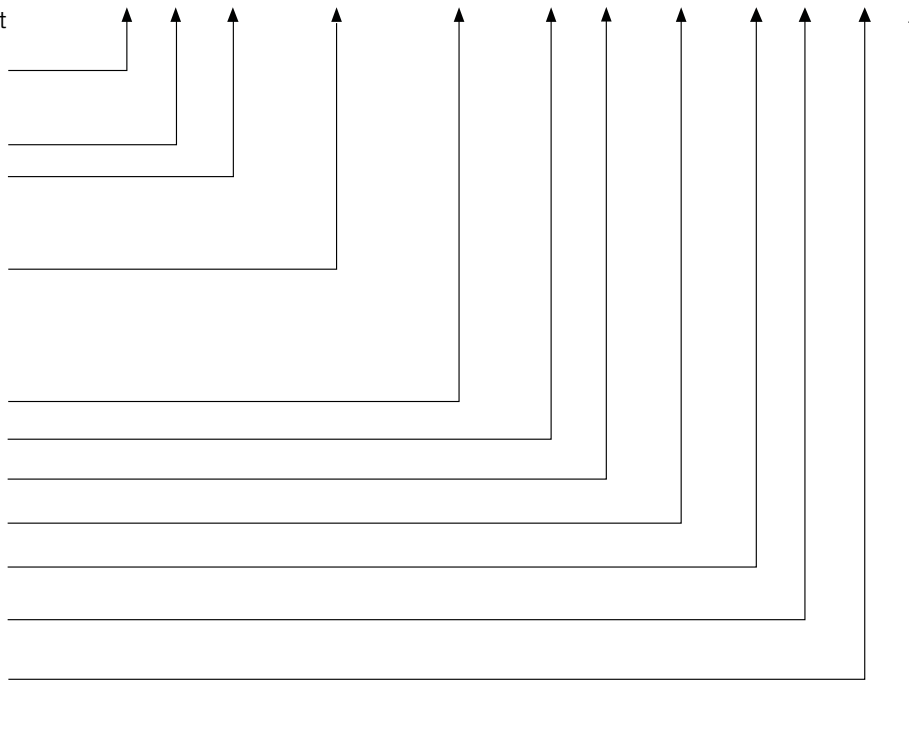
200 = L = immersion depth (mm)

4,3,2 = Pt 100 number of connection wires  
K,N,J = TC type of thermocouple

A,B = Pt100 precision class A (STANDARD)  
1,2,3 = TC accuracy class 1 (STANDARD)

TR = free wires for transmitter  
CB = with ceramic terminal block

X = additional details on the text line



**Connection heads**

