

# EPIC® SENSORS T-A-Ø / W-A-Ø or T-A-Ø-U / W-A-Ø-U

## Immersible temperature sensor

#### **Features**

- according to DIN 43772 form 1
- temperature range \*) -200...+1200 °C
- AISI 316L/EN1.4044 or heat-resistant steel AISI 446-1/ EN1.4749 as typical material, other materials on request
- available with solid tip
- 200 mm as typical length for the solid tip
- 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
- 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**

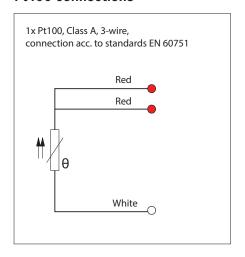
Thermowell material	AISI 316L/EN1.4044 max. temperature +550 °C, temporarily +600 °C, AISI 446-1/EN1.4749 max. temperature +1100 °C, temporarily +1200 °C
	Other materials on request
Thermowell tip material	AISI 316L/EN1.4044 max. temperature +550 °C, temporarily +600 °C AISI 446-1/EN1.4749 max. temperature +1100 °C, temporarily +1200 °C Other materials on request
Tolerances Pt100 (IEC 60751)	AA tolerance $\pm 0.1 + 0.0017$ x t, operating temperature -50+250 °C A tolerance $\pm 0.15 + 0.002$ x t, operating temperature -100+450 °C B tolerance $\pm 0.3 + 0.005$ 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
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, depending on housing and thermowell materials
*) Temperature range thermocouple	-200+1200 °C, depending on thermocouple type and thermowell materials
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

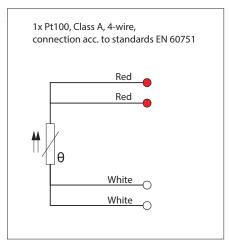


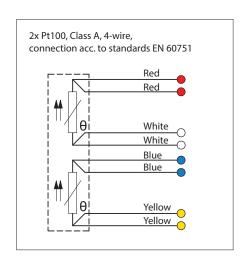
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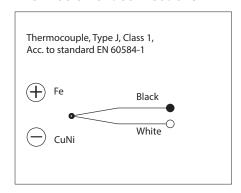
#### Pt 100 connections

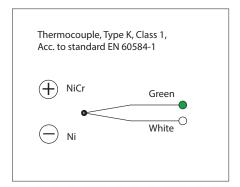


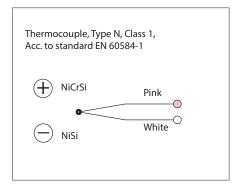




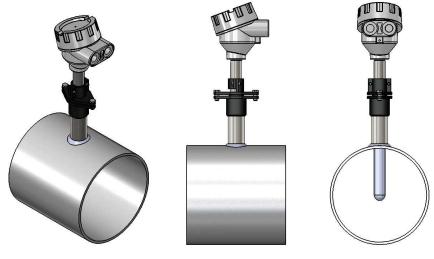
#### Thermoelement connections







## Installation examples



#### **Connection heads**

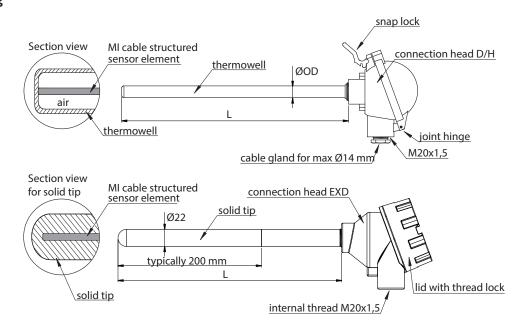




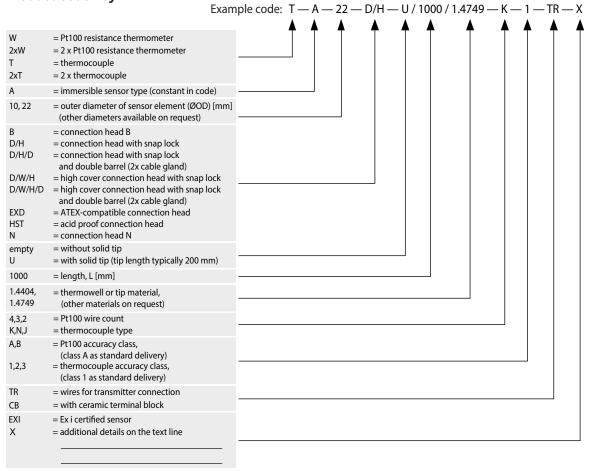
## EPIC® SENSORS T-A-Ø / W-A-Ø or T-A-Ø-U / W-A-Ø-U

### Immersible temperature sensor

#### **Drawing**



#### Product code key



#### W-A-22-EXD-500/1.4404-4-A-CB

Pt100 resistance thermometer for 4 wire measurement, Pt100 with accuracy class A, immersible sensor type, 22 mm diameter for sensor element, ATEX compatible housing, without solid tip, sensor length 500 mm, materials AlSI316L/EN1.4404, with ceramic block for cable connection.