

### CABLE RESISTANCE THERMOMETER

#### Type XI-TOPE3, XI-TOPE4

Resistance thermometers XI-TOPE3, XI-TOPE4 are designed for screw-fitting directly into process or into machine parts. Adjustable spring force of sensor provides optimum measurement conditions in environment where vibrations and turbulences appears. Additional external thermowell of XI-TOPE3 version allows for easy sensor disassembly without unsealing process installation. These thermometers are suitable for liquid and gaseous media under moderate mechanical load and normal chemical conditions.

XI-TOPE3 sensor consists of thermometric resistor, protection tube made out of stainless steel, connection cable, adjustable bayonet cap with spring and additional external thermowell with threaded process connection. XI-TOPE4 sensor is provided with bayonet adaptor, without additional external thermowell.

### TECHNICAL DATA

#### Description

- Intrinsically safe for mines MI, gas G and dust D atmospheres
- Single and double RTD
- Version with additional thermowell (XI-TOPE3) or without thermowell (XI-TOPE4)

#### Design temperature range

-10.. +105°C	with cable in PVC
-50.. +180°C	with cable in silicone rubber
-50.. +260°C	with cable in teflon® PFA
-50.. +400°C	with cable in fiberglass

#### Sensing element

1x or 2xPt100	Class A or B, acc. to PN-EN 60751
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#### Thermowell

Material	stainless steel 1.4541**
Diameter [mm]	Ø10
Length L [mm]	custom

#### Bayonet cap

Diameter d [mm]	Ø12
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#### Remarks

- \* Pt500, Pt1000, Ni100, Ni1000
- \*\* other parameters upon request

#### ATEX Marking:

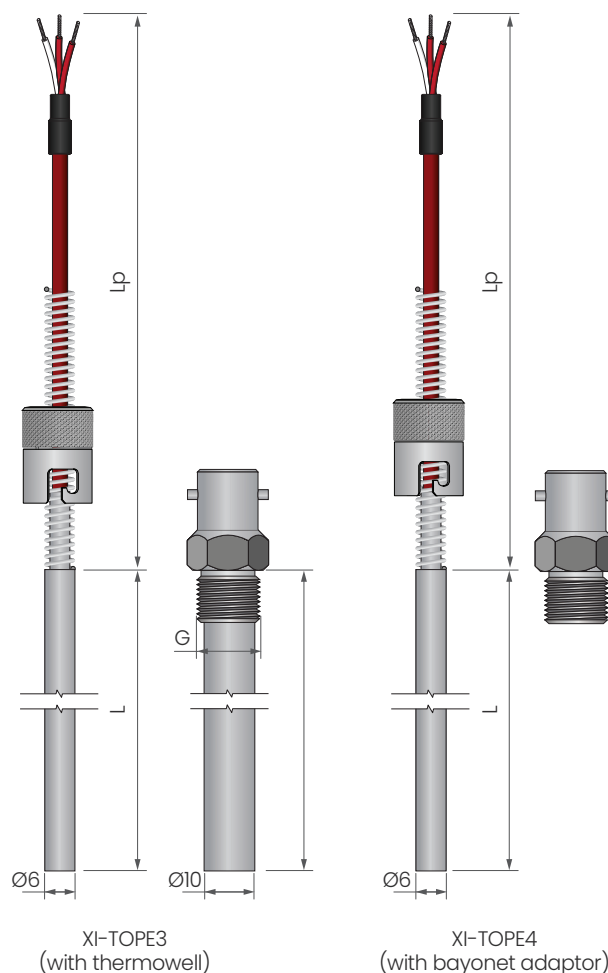
- CE MI Ex ia I Ma
- CE II 1/2 G Ex ia II C T... Ga/Gb
- CE II 1/2 D Ex ia III C T... Da/Db

#### IECEx Marking:

- Ex ia I Ma
- Ex ia IIC T ...Ga
- Ex ia III C T ...Da

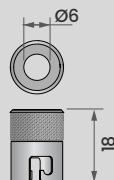
#### EAC Ex Marking:

- PO Ex ia I Ma X
- 0Ex ia IIC T...Ga X
- 0Ex ia III C T...Da X

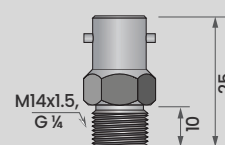
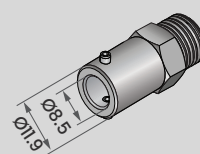


#### Bayonet cap









**Bayonet Ø12**  
spring: Ø 6.0

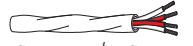









#### Bayonet adaptor



List of available connection cables.

Connection cable	cross	diameter	code
up to +105°C.  PVC / PVC	 4 x 0.22 mm <sup>2</sup>	Ø4.4	JJ-4x0.22mm <sup>2</sup>
up to +180°C.  silicone / silicone	 3 x 0.22 mm <sup>2</sup>	Ø3.4	SLSL-3x0.22mm <sup>2</sup>
up to +180°C.  teflon® FEP / silicone		Ø4.2 Ø3.8 Ø3.8 Ø4.4 Ø5.0	TSL-2x0.22mm <sup>2</sup> TSL-3x0.22mm <sup>2</sup> TSL-4x0.22mm <sup>2</sup> TSL-6x0.22mm <sup>2</sup> TSL-8x0.22mm <sup>2</sup>
up to +180°C.  teflon® FEP / Cu braid / silicone		Ø3.9 Ø4.0 Ø4.2 Ø4.4	TPSL-3x0.22mm <sup>2</sup> TPSL-4x0.22mm <sup>2</sup> TPSL-6x0.22mm <sup>2</sup> TPSL-8x0.22mm <sup>2</sup>

Connection cable	cross	diameter	code
up to +260°C.  teflon® PFA / teflon® PFA		Ø2.5 Ø2.6 Ø2.6	TT-2x0.22mm <sup>2</sup> TT-3x0.22mm <sup>2</sup> TT-4x0.22mm <sup>2</sup>
up to +260°C.  teflon® PFA / steel braid		Ø1.7 Ø3.5 Ø2.0 Ø3.6	TP-3x0.05mm <sup>2</sup> TP-3x0.50mm <sup>2</sup> TP-4x0.05mm <sup>2</sup> TP-4x0.22mm <sup>2</sup>
up to +260°C.  teflon® PFA / Cu braid / teflon® PFA		Ø3.1 Ø3.9 Ø4.1 Ø4.6 Ø2.6 Ø3.0	TCuT-3x0.22 mm <sup>2</sup> TCuT-4x0.22 mm <sup>2</sup> TCuT-6x0.22 mm <sup>2</sup> TCuT-8x0.22 mm <sup>2</sup> TCuT-6x0.05 mm <sup>2</sup> TCuT-8x0.05 mm <sup>2</sup>
up to +400°C.  fiberglass / fiberglass / steel braid		Ø3.8 Ø5.0	GLGLP-4x0.22 mm <sup>2</sup> GLGLP-6x0.22 mm <sup>2</sup>

**ORDERING CODE**

Temperature sensor		XI - TOPE							
version:	(with thermowell) 3 (with bayonet adaptor) 4	1	2	3	4	5	6	7	8
sensing element:	1xPt100 <input type="checkbox"/> 1xPt500 <input type="checkbox"/> 2xPt100 <input type="checkbox"/> 1xPt1000 <input type="checkbox"/> or other* <input type="checkbox"/>								
length L [mm]:	custom <input type="checkbox"/>								
cable length Lp [mm]:	custom <input type="checkbox"/>								
RTD class:	A, B <input type="checkbox"/>								
connection line:	2, 3, 4 wire for 1xPt100; 1x <input type="checkbox"/> 2, 3wire for 2xPt100 2x <input type="checkbox"/>								
cable insulation	(see specification) <input type="checkbox"/>								
process thread:	M14x1.5, <input type="checkbox"/> G¾ <input type="checkbox"/> or other* <input type="checkbox"/>								

**EXAMPLE:** Temperature sensor XI-TOPE3-1xPt100-115-2500-A-4-TSL-M14x1.5  
①    ②    ③    ④    ⑤    ⑥    ⑦    ⑧

Temperature sensor XI-TOPE4-1xPt100-100-1000-B-2-SLSL-M14x1.5  
①    ②    ③    ④    ⑤    ⑥    ⑦    ⑧