

CABLE RESISTANCE THERMOMETER

Type XI-TOPE500

Resistance thermometers TOPE500 are designed for surface temperature measurement.

The sensor consists of thermometric resistor, teflon® self-adhesive tape and cable.

TECHNICAL DATA

Description

- Intrinsicly safe for mines MI, gas G and dust D atmospheres
- Single RTD
- For sticking with teflon® tape

Temperature range

-50 .. +200°C *

Sensing element

1x Pt100 Class A or B, acc. to PN-EN 60751

Tape

Material	teflon®
Weight [mm]	15 mm
Length L [mm]	custom

Connection cable

TT	teflon® PFA / teflon® PFA (up to +260°C)
TP	teflon® PFA / steel braid (up to +260°C)

Remarks

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

ATEX Marking:

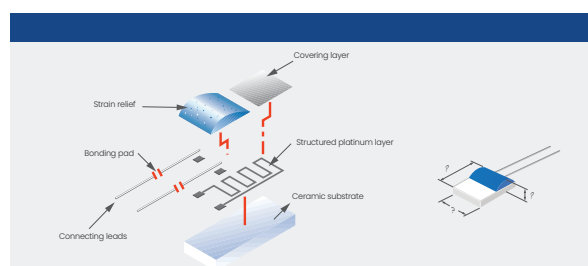
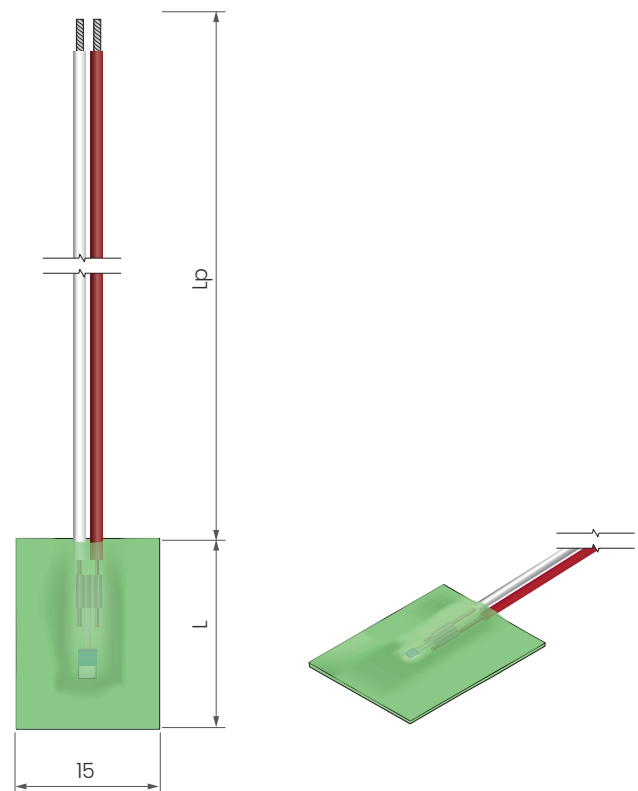
- CE I MI Ex ia I Ma
- CE II 1/2 G Ex ia II C T... Ga/Gb
- CE II 1/2 D Ex ia III C T... Da/Db

IECEx Marking:

- Ex ia I Ma
- Ex ia IIC T ...Ga
- Ex ia IIIC T ...Da

EAC Ex Marking:

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



Temperature range of the sensor depends on insulation of connection cable.

Connection cable	cross	diameter	code
up to +260°C. 			
teflon® PFA / steel braid	3 x 0.05 mm ²	Ø1.7	TP-3x0.05mm ²
	3 x 0.50 mm ²	Ø3.5	TP-3x0.50mm ²
	4 x 0.05 mm ²	Ø2.0	TP-4x0.05mm ²
	4 x 0.22 mm ²	Ø3.6	TP-4x0.22mm ²

Connection cable	cross	diameter	code
up to +260°C. 			
teflon® PFA / teflon® PFA	2 x 0.22 mm ²	Ø2.5	TT-2x0.22mm ²
	3 x 0.22 mm ²	Ø2.6	TT-3x0.22mm ²
	4 x 0.22 mm ²	Ø2.6	TT-4x0.22mm ²

ORDERING CODE

Temperature sensor		XI - TOPE500 -					
sensing element:	<input type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	<input type="checkbox"/> 1xPt500 <input type="checkbox"/> 1xPt1000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
tape length L [mm]:	<input type="checkbox"/> 15, <input type="checkbox"/> 20 <input type="checkbox"/> or other*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
cable length L _p [mm]:	<input type="checkbox"/> custom		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RTD class:	<input type="checkbox"/> A, B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
connection line:	<input type="checkbox"/> 2, 3, 4 wire for 1xPt100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
cable insulation	<input type="checkbox"/> (see specification)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EXAMPLE: Temperature sensor XI-TOPE500-1xPt100-15-1500-B-2

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Temperature sensor XI-TOPE500-1xPt100-20-3000-A-3

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