

CABLE THERMOCOUPLE

Type XI-TTE500

Thermocouple with self-adhesive teflon® tape. Surface temperature measurement of blocks, parts of machinery or other construction elements. The sensor consists of thermocouple wire and teflon® self-adhesive tape.

Type of thermocouple, length, accuracy, cable insulation can be selected individually for the respective application.

TECHNICAL DATA

Description

- Intrinsically safe for mines MI, gas G and dust D atmospheres
- Single and double TC
- For sticking with teflon® tape

Temperature range

-40 .. +200°C

Sensing element

| | | |
|----------------------|----------|-------------------------------|
| 1x or 2x NiCr-NiAl | K | acc. to EN 60584-2 class 1, 2 |
| 1x or 2x NiCrSi-NiSi | N | acc. to EN 60584-2 class 1, 2 |
| 1x or 2x Fe-CuNi | J | acc. to EN 60584-2 class 1, 2 |
| 1x or 2x NiCr-CuNi | E | acc. to EN 60584-2 class 1, 2 |
| 1x or 2x Cu-CuNi | T | acc. to EN 60584-2 class 1, 2 |

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

* other parameters upon request

ATEX Marking:

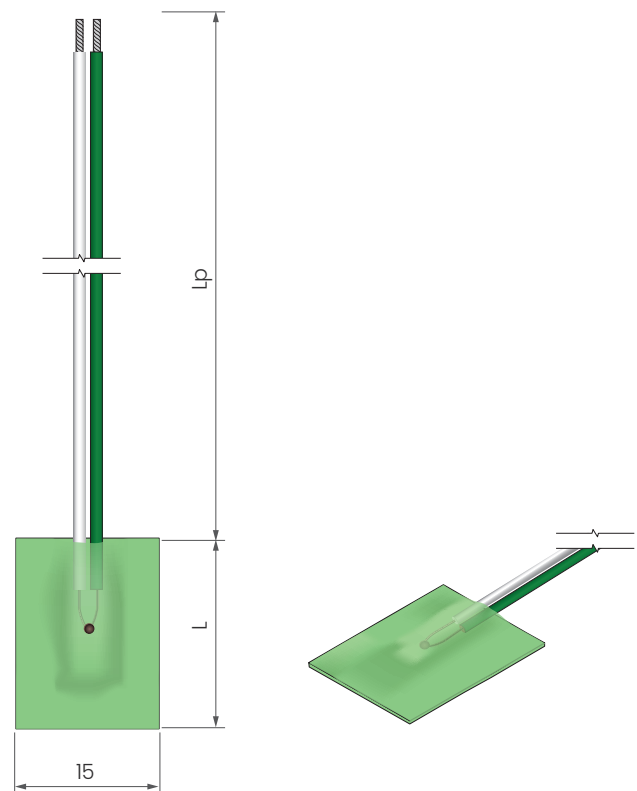
- CE I MI Ex ia I Ma
- CE II 1/2 G Ex ia II C T... Ga/Gb
- CE II 1/2 D Ex ia III C T... Da/Db

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
- OEx ia IIC T...Ga X
- OEx ia IIIC T...Da X



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

| Connection cable | cross | diameter | code |
|--|--|------------------------------|--|
| up to +105°C. PVC / PVC | 2 x 0.22 mm ² | Ø4.0 Ø5.0 Ø5.0 Ø6.0 | JJ-2x0.22mm ² JJ-2x0.44mm ² JJ-4x0.50mm ² JJ-2x0.75mm ² |
| up to +180°C. silicone / silicone | 2 x 0.22 mm ² | Ø3.4 Ø4.5 | TSL-2x0.22mm ² TSL-2x0.75mm ² |
| up to +400°C. fiberglass / fiberglass / steel braid | 2 x 0.22 mm ² 2 x 0.50 mm ² 2 x 0.50 mm ² | Ø3.6 3x4 4x5 | GLGLP-2x0.22 mm ² GLGLP-2x0.50 mm ² GLGLP-2x0.75 mm ² |

| Connection cable | cross | diameter | code |
|---|--|--|---|
| up to +260°C. teflon® PFA / teflon® PFA | 2 x 0.22 mm ² 2 x 0.50 mm ² 2 x 0.75 mm ² | 1.9x2.3 1.7x3.0 2.4x4.2 | TT-2x0.22mm ² TT-2x0.50mm ² TT-2x0.75mm ² |
| up to +205°C. teflon® FEP/Cu braid / teflon® FEP | 2 x 0.22 mm ² 4 x 0.22 mm ² 2 x 0.50 mm ² 4 x 0.50 mm ² 6 x 0.50 mm ² 4 x 0.75 mm ² 6 x 0.75 mm ² | Ø2.9 Ø3.6 Ø3.8 Ø4.6 Ø5.1 Ø5.1 Ø6.3 | TCuT-2x0.22 mm ² TCuT-4x0.22 mm ² TCuT-2x0.50 mm ² TCuT-4x0.50 mm ² TCuT-6x0.50 mm ² TCuT-4x0.75 mm ² TCuT-6x0.75 mm ² |

ORDERING CODE

| Temperature sensor | | | XI - TTE500 - [] - [] - [] - [] | | | |
|-----------------------------------|--|--------------------------|-------------------------------------|---|---|---|
| sensing element: | Type K Type J Type N Type E Type T | | 1 | 2 | 3 | 4 |
| tape length L [mm]: | 15, 20 or other* | <input type="checkbox"/> | | | | |
| cable length L _p [mm]: | custom | <input type="checkbox"/> | | | | |
| TC class: | 1, 2 | <input type="checkbox"/> | | | | |

EXAMPLE: Temperature sensor XI-TTE500-K-15-1500-1

1 2 3 4

Temperature sensor XI-TTE500-J-20-3000-2

1 2 3 4