

Intrinsically Safe Temperature Sensor for Measurement of Machinery and Device Parts

TOPE - 363Exi,
TTKE - 363Exi,
TTJE - 363Exi

Specification

Temperature range / sensing element

-50÷400°C	Pt100	class B
-40÷400°C	J, K, N	class 2
-40÷350°C	T	class 2

Sheath

- material: stainless steel 1.4541
- welded threaded connector
- length L [mm]: 50÷1000

Lead wire

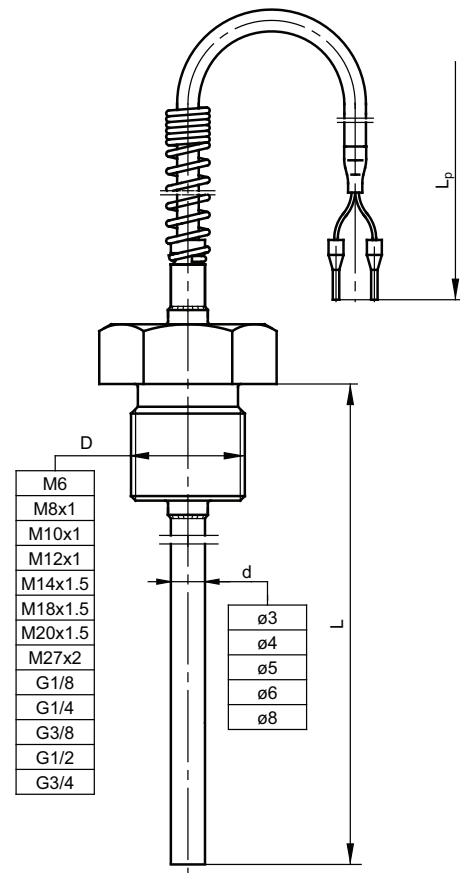
- Ws - stranded Cu wire or stranded thermocouple wire 0,22 mm² with fiberglass insulation, metallic overbraid, operating temperature up to 400°C
- Si - stranded Cu wire or stranded thermocouple wire 0,22 mm² with silicone insulation, operating temperature up to 180°C, for d>5
- length L_p [m]: 1,5 (standard)
- Cu wire resistance ~0,14 Ω/m = ~0,36°C

Constructional version

- Exi acc. to ATEX
- EC-Type Examination Certificate: **WE KDB 07ATEX055**
II 2G Ex ia IIC T6
II 2D Ex iaD 21 T85°C
- thermocouple sensor with insulated hot junction

Options

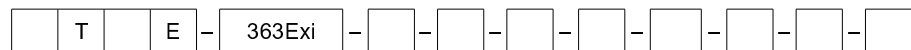
- Pt500, Pt1000
- 3-, 4-wire connection for Pt100
- Pt100: class A -30÷250°C, class AA 0÷150°C; TC class 1



Ordering code

N

Temperature sensor



Single: **no designation**

Double: **2**

Sensing element resistor Pt: **OP**

thermocouple: **TJ, TT, TN or TK**

Sheath length L [mm]: **50** or other*

Sheath diameter d [mm]: **6** or other*

Lead wire insulation type: **Ws, Si**

RTD type: **Pt100** or other*

RTD/ thermocouple class: **A, B*/ 1, 2**

RTD connection for Pt: **2, 3, 4-wire**

Thread dimension: **M12x1** or other*

Lead wire length [m]: **3** or other*

*Other parameters acc. to requirements

Ordering example:

TOPE-363Exi-80-6-Ws-Pt100-B-3-M12x1-3 m RTD sensor with Pt100, class B, 3-wire connection, sheath length L=80 mm and diameter d=6 mm, with welded connector M12x1, fiberglass insulated lead wire, metallic overbraid, length L_p=3 m