

Temperature Sensors for Measurement of Machinery and Device Parts **TOPGE-3, TTJGE-3, TTKGE-3**

Specification

Temperature range / sensing element

-50÷400°C **Pt100** class B
 -40÷400°C **K, J** class 2

Sheath

– material: stainless steel 1.4541

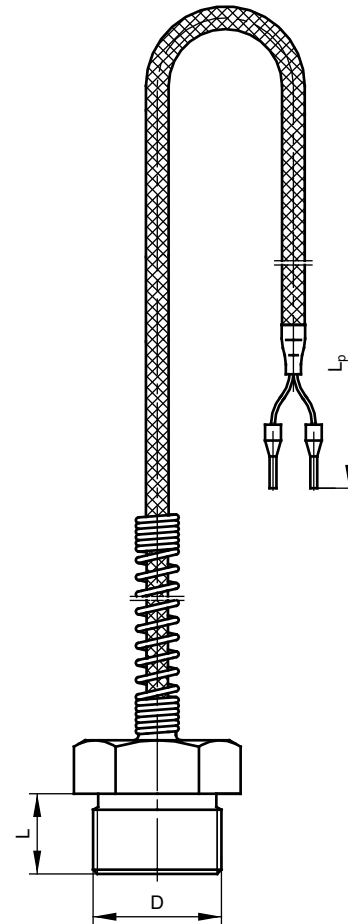
Thread D	Standard length L [mm]
M6	8
M8x1	8
M10x1	8
M12x1,5	12
M14x1,5	12
M20x1,5	15
M24x1,5	15
G½	15

Lead wire

- stranded Cu wire, or thermocouple stranded wire: 2x0,22 mm²
- fiberglass insulation, metallic overbraid
- length L_p [m]: 1,5 or other acc. to requirements
- Cu wire resistance ~0,14 Ω/m = ~0,36°C

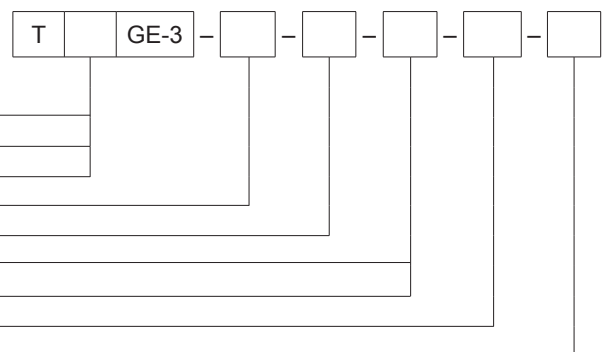
Options

- Pt500, Pt1000, Ni100, Ni1000, N, T
- hot junction: insulated SO, grounded SP
- 3-, 4-wire connection for Pt100
- other lead wire insulation types: PVC, silicone, teflon
- Pt100: class A -30÷300°C, class AA 0÷150°C; TC: class 1



Ordering code

Temperature sensor



- RTD Pt: **OP** _____
- Thermocouple Fe-CuNi: **TJ** _____
- Thermocouple NiCr-NiAl: **TK** _____
- RTD type: **Pt100** or other* _____
- RTD / thermocouple class: **A, B*/ 1, 2** _____
- RTD Pt100 connection: **2, 3, 4- wire** _____
- Hot junction type for TC: **SO, SP** _____
- Thread dimension: **D/L [mm]** _____
- Lead wire length L_p [m]: **1,5** or other* _____
- *Other parameters acc. to requirements

Ordering example:

TOPGE-3-Pt100-B-2-M8x1-12-2 m single sensor with Pt100, class B, 2-wire connection, sheath with thread M8x1, thread length 12 mm, lead wire length L_p=2 m

TTJGE-3-2-SO-M20x1,5-15-1,5 m sensor with thermocouple Fe-CuNi /J/, class 2, insulated hot junction, thread M20x1,5, thread length 15 mm, lead wire length L_p=1,5 m