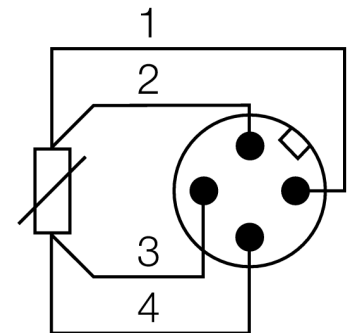


**Temperature measurement
Probe
TP-103A-G1/8-H1141-L013**

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Connectable to TS, TTM, IM34, BL20, BL67
- Temperature range -50...120 °C
- 4-wire technology

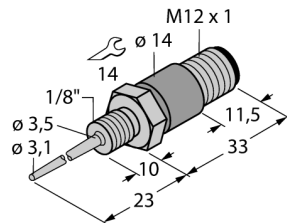
Wiring diagram



General description

Resistance thermometers come into operation when temperatures must be measured and monitored to control and optimize processes.

Typical applications are process plants, manufacturing facilities and units, as well as air-conditioning systems. The core element of the temperature sensors is a Pt 100 measuring resistor in 4-wire technology.



| | |
|---|---|
| Type code | TP-103A-G1/8-H1141-L013 |
| Ident no. | 9910400 |
| Temperature operating range | -50...120 °C |
| Measuring element | Pt-100 platinum measuring element, DIN EN 60751 |
| Accuracy | Class A |
| Response time | t0.5 = 1.5 s / t0.9 = 6.0 s in water at @ 0.2 m/s |
| Immersion depth (L) | 13 mm |
| Protection type and class | IP67 |
| MTTF | 2283 years acc. to SN 29500 (Ed. 99) 40 °C |
| Ambient conditions | |
| Ambient temperature | -40 ... 120 °C |
| Pressure resistance | 100 bar |
| Housing | |
| Housing material | Stainless steel/plastic, V4A (1.4404) |
| Sensor material | stainless steel, AISI 316L |
| Mechanical connection | G 1/8" male thread |
| Connection | male, M12 x 1 |
| Pressure resistance | 100 bar |
| Reference conditions acc. to IEC 61298-1 | |
| temperature | 15...25 °C |
| Atmospheric pressure | 860...1060 hPa abs. |
| Humidity | 45...75 % rel. |
| Auxiliary power | 24 VDC |

**Temperature measurement
Probe
TP-103A-G1/8-H1141-L013**

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|---------------|-----------|--|-------------------|
| RKC4.4T-2/TEL | 6625013 | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |
| WKC4.4T-2/TEL | 6625025 | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |
| RKC4.4T-2/TXL | 6625503 | Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |
| WKC4.4T-2/TXL | 6625515 | Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |