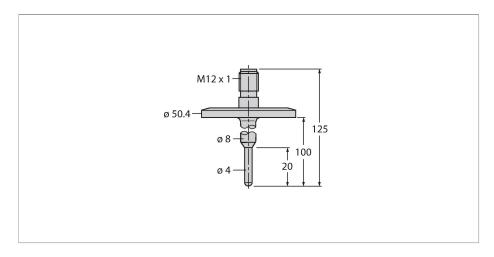


TP-504A-TRI1.5-H1141-L100/S3645 Temperature Detection – Probe



Technical data

| Туре | TP-504A-TRI1.5-H1141-L100/S3645 |
|---------------------------|--------------------------------------------------------------------------------------------------|
| ID | 100048143 |
| Special version | S6345 corresponds to: Roughness of media-contacting surfaces Ra < 0.4 µm (electropolished) |
| Temperature range | |
| Measuring range | -50120 °C |
| Measuring range | -58248 °F |
| Accuracy | ±0.15 K + 0.002 • t (-30300 °C) |
| Self-heating | 0.4 K/mW at 0 °C |
| Measuring element | Pt-100 probe, DIN EN 60751, class A, connection mode: 4-wire connection |
| Response time | t 0.5 = 3 s / t 0.9 = 10 s in water at 0.2 m/ s |
| Immersion depth (L) | 100 mm |
| Outer diameter | 8 mm |
| Protection type and class | IP67 |
| Environmental conditions | |
| Ambient temperature | -40+120 °C |
| Mechanical data | |
| Housing material | Stainless steel, 1.4404 (AISI 316L) |
| Sensor material | Stainless steel, 1.4404 (AISI 316L), R _a ≤ 0.8 µm |
| Process connection | Tri-Clamp 1 1/2" |
| Pressure resistance | 40 bar |
| Electrical connection | Connector, M12 × 1 |

Features

- ■Pt 100 probe according to DIN EN 60751
- Resistant to vibrations and shocks
- Connectable to TS, TTM, IM34, BL20, BL67
- ■Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- ■Process connection Tri-Clamp 1 1/2"

Wiring diagram



Functional principle

Resistance thermometers are used for the detection and monitoring of temperatures to optimize and control a process.

Typical applications are in machine and plant construction as well as in the process industry. The core element of the temperature probe is a temperature-dependent resistor.



Technical data

| Reference conditions acc. to IEC 61298-1 | |
|------------------------------------------|--------------------------------------------|
| Temperature | 15+25 °C |
| Atmospheric pressure | 8601060 hPa abs. |
| Humidity | 4575 % rel. |
| Auxiliary power | 24 VDC |
| Tests/approvals | |
| Approvals | cULus |
| UL registration number | E345414 |
| MTTF | 2283 years acc. to SN 29500 (Ed. 99) 20 °C |

Accessories

