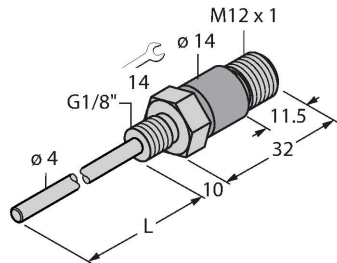


# TP-104A-G1/8-H1141-L035

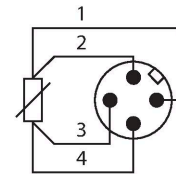
## Temperature Detection – Probe



### Features

- Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Process connection G1/8" male thread
- Electrical connection rotatable by 360°

### Wiring diagram



### Technical data

|   |  |
|---|--|
| Type  | TP-104A-G1/8-H1141-L035  |
| ID  | 9910840  |
| <b>Temperature range</b>                        |  |
| Measuring range                                 | -50...120 °C   |
|   | -58...248 °F   |
| Accuracy  | ±0.15 K + 0.002 •  t  (-30...300 °C)                             |
| Self-heating                                    | 0.4 K/mW at 0 °C   |
| Measuring element                               | Pt100, DIN EN 60751, class A; connection mode: 4-wire connection |
| Response time                                   | t 0.5 = 1.5 s/t 0.9 = 6.0 s in water at 0.2 m/s                  |
| Immersion depth L                               | 35 mm  |
| Outer diameter                                  | 4 mm   |
| Protection class                                | IP67   |
| <b>Environmental conditions</b>                 |  |
| Ambient temperature                             | -40...+120 °C  |
| <b>Mechanical data</b>                          |  |
| Housing material                                | Stainless steel, 1.4404 (AISI 316L)                              |
| Sensor material                                 | Stainless steel, 1.4404 (AISI 316L)                              |
| Process connection                              | G 1/8" male thread   |
| Electrical connection                           | Connector, M12 × 1   |
| Core cross-section                              | 4 mm <sup>2</sup>  |
| <b>Reference conditions acc. to IEC 61298-1</b> |  |
| Temperature                                     | 15...+25 °C  |
| Atmospheric pressure                            | 860...1060 hPa abs.  |
| Humidity  | 45...75 % rel.   |

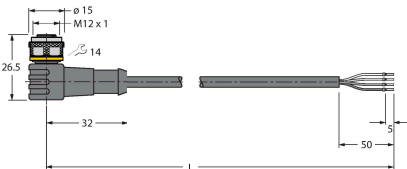


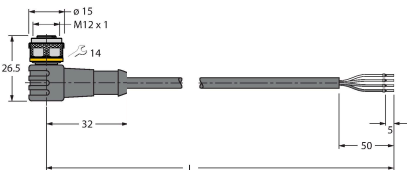
### Functional principle

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

|                        |  |
|------------------------|--|
| Auxiliary power        | 24 VDC                                     |
| Tests/approvals        |  |
| Approvals              | cULus                                      |
| UL registration number | E345414                                    |
| MTTF                   | 2283 years acc. to SN 29500 (Ed. 99) 20 °C |

Accessories

| Dimension drawing   | Type          | ID      |   |
|---|---------------|---------|---|
|    | WKC4.4T-2/TEL | 6625025 | Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval   |
|  | RKC4.4T-2/TEL | 6625013 | Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
|  | RKC4.4T-2/TXL | 6625503 | Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |
|  | WKC4.4T-2/TXL | 6625515 | Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval   |