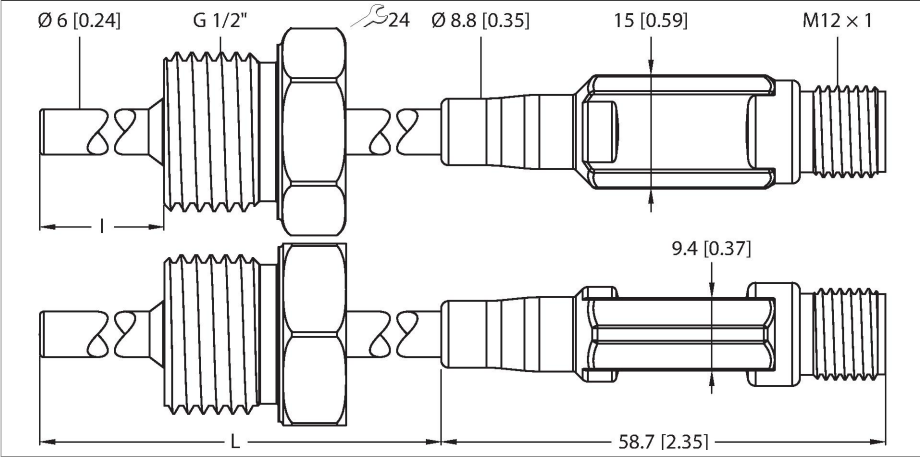


# TTM150C-206A-G1/2-LI6-H1140-L250-50/150C

## Temperature Detection – With Current Output



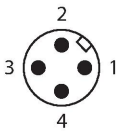
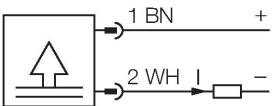
### Technical data

|                                                    |                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------|
| Type                                               | TTM150C-206A-G1/2-LI6-H1140-L250-50/150C                                        |
| ID                                                 | 9910736                                                                         |
| Temperature range                                  |                                                                                 |
| Measuring range                                    | -50...150 °C                                                                    |
|                                                    | -58...302 °F                                                                    |
| Note                                               | Max. temperature of electronics:<br>80 °C/176 °F                                |
| Measuring element                                  | Pt1000, DIN EN 60751, class A                                                   |
| Response time                                      | t <sub>05</sub> = 1.5 s / t <sub>09</sub> = 6.0 s in water @ 0.2 m/s            |
| Bar length (L)                                     | 300 mm                                                                          |
| Immersion length (l)                               | 250 mm                                                                          |
| Immersion depth L                                  | 250 mm                                                                          |
| Outer diameter                                     | 6 mm                                                                            |
| Power supply                                       |                                                                                 |
| Operating voltage U <sub>B</sub>                   | 5.5...32 VDC                                                                    |
| Current consumption                                | ≤ 20 mA                                                                         |
| Short-circuit/reverse polarity protection          | yes / yes                                                                       |
| Protection class                                   | IP67                                                                            |
| Insulation class                                   | III                                                                             |
| Analog output                                      |                                                                                 |
| Current output                                     | 4...20 mA                                                                       |
| Load                                               | ≤ 0.84 kΩ @ 24 VDC [R <sub>Load</sub> = (V <sub>Supply</sub> - 5.5 V)/22 mA] kΩ |
| Accuracy (Lin. + Hys. + Rep.)                      | ± 0.2 K                                                                         |
| Temperature behaviour                              |                                                                                 |
| Temperature coefficient zero point TK <sub>0</sub> | ± 0.1 % of full scale/10 K                                                      |

### Features

- Miniature design
- Analog output 4...20 mA
- Factory setting -50...150 °C (other settings on request)
- Process connection G1/2" male thread
- Bendable probe (min. bending radius: 3x outer diameter; excluding 30-mm probe tip)

### Wiring diagram



### Functional principle

The TTM miniature transmitters are available with integrated probe. Due to the integrated electronics, the limited temperature range must be observed, especially in the area of the M12 connector.

Technical data

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| Temperature coefficient range TK <sub>s</sub> | ± 0.1 % of full scale/10 K                  |
| Environmental conditions                      |                                             |
| Ambient temperature                           | -40...+80 °C                                |
| Storage temperature                           | -40...+80 °C                                |
| Mechanical data                               |                                             |
| Housing material                              | Stainless-steel/Plastic, 1.4404 (AISI 316L) |
| Sensor material                               | Stainless steel, 1.4404 (AISI 316L)         |
| Process connection                            | G 1/2" male thread                          |
| Pressure resistance                           | 100 bar                                     |
| Electrical connection                         | Connector, M12 × 1                          |
| 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                                      |
| Tests/approvals                               |                                             |
| MTTF                                          | 162 years acc. to SN 29500 (Ed. 99) 40 °C   |