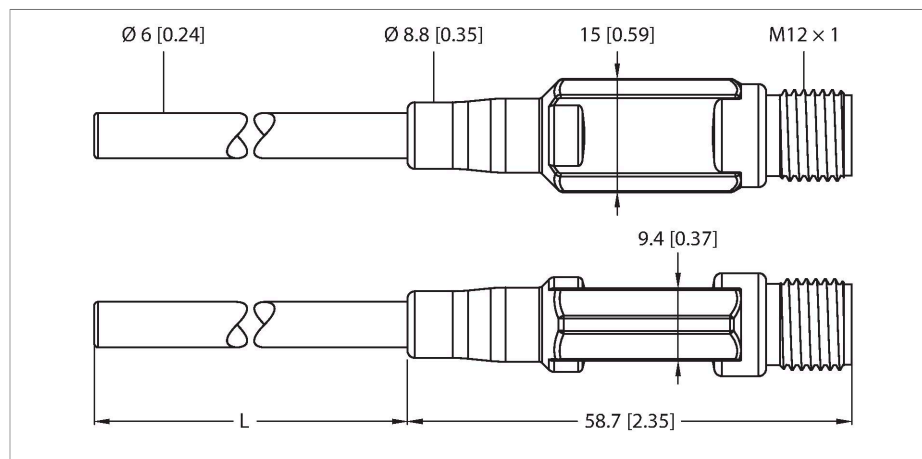


TTM100C-206A-CF-LI6-H1140-L050

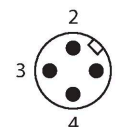
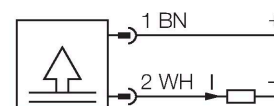
Temperature Detection – With Current Output



Features

- Miniature design
- Analog output 4...20 mA
- Factory setting 0...100 °C (other settings on request)
- Compression fitting process connection
- 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

Type	TTM100C-206A-CF-LI6-H1140-L050
ID	9910647
Temperature range	
Measuring range	0...100 °C
Measuring range	32...212 °F
Note	Max. temperature of electronics: 80 °C/176 °F
Measuring element	Pt-1000 probe, DIN EN 60751, class A
Response time	$t_{05} = 1.5 \text{ s}$ / $t_{09} = 6.0 \text{ s}$ in water @ 0.2 m/s
Immersion depth (L)	50 mm
Outer diameter	6 mm
Power supply	
Operating voltage	5.5...32 VDC
Current consumption	≤ 20 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Analog output	
Current output	4...20 mA
Load	≤ 0.84 kΩ @24 0.84 kΩ @24 VDC [$R_{\text{Load}} = (V_{\text{Supply}} - 5.5 \text{ V}) / 22 \text{ mA}$] kΩ
Accuracy (Lin. + Hys. + Rep.)	± 0.2 K
Temperature behaviour	
Temperature coefficient zero point TK_0	± 0.1 % of full scale/10 K
Temperature coefficient range TK_s	± 0.1 % of full scale/10 K

Technical data

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	For compression fittings, thermowell or direct mounting
Process Pressure	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