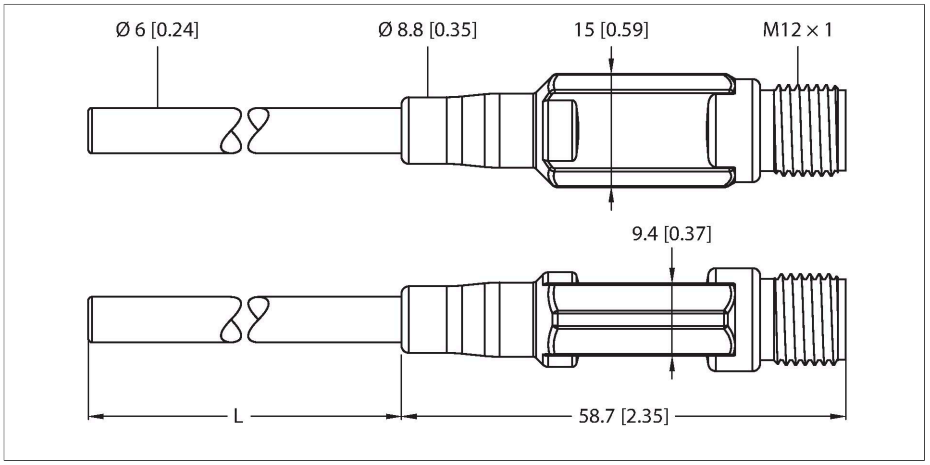
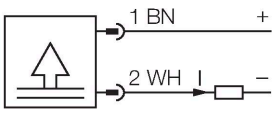
TTM150C-206A-CF-LI6-H1140-L400-50/150°C
Temperature Detection – With Current Output



Features

- Miniature design
- Analog output 4…20 mA
- Factory setting -50…150 °C (other settings on request)
- Compression fitting process connection
- Bendable probe (min. bending radius: 3x outer diameter; excluding 30-mm probe tip)

Wiring diagram

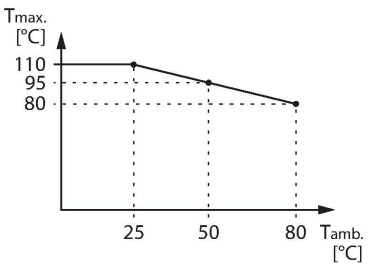


Technical data

Type	TTM150C-206A-CF-LI6-H1140-L400-50/150°C
Ident. no.	9910578
Temperature range	
Measuring range	-50…150 °C
Temperature operating range	-58…302 °F
Note	Max. temperature of electronics: 80 °C/176 °F
Measuring element	Pt-1000 probe, DIN EN 60751, class A
Response time	t 0.5 = 6 s / t 0.9 = 15 s in water at 0.2 m/s
Immersion depth (L)	400 mm
Power supply	
Operating voltage	10…24 VDC
Current consumption	≤ 20 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Outputs	
Output 1	Analog output
Output function	Analog output
Analog output	
Current output	4…20 mA
Load	≤ 0.7 kΩ
Accuracy (Lin. + Hys. + Rep.)	± 0.2 K

Functional principle

Temperatures are recorded over a mineral insulated transmitter and converted into a wide range of electrical output signals.
The devices of the TTM miniature series are enclosed in a fully potted plastic housing and depending on the variant, they have either an IO-link output, power output and/or switching output.



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Technical data

Temperature behaviour	
Temperature coefficient zero point Tk0	± 0.1 % of full scale/10 K
Temperature coefficient span T_{kS}	± 0.1 % of full scale/10 K
Ambient conditions	
Ambient temperature	-40…+80 °C
Storage temperature	-40…+80 °C
Housing	
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
MTTF	162 years acc. to SN 29500 (Ed. 99) 40 °C

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