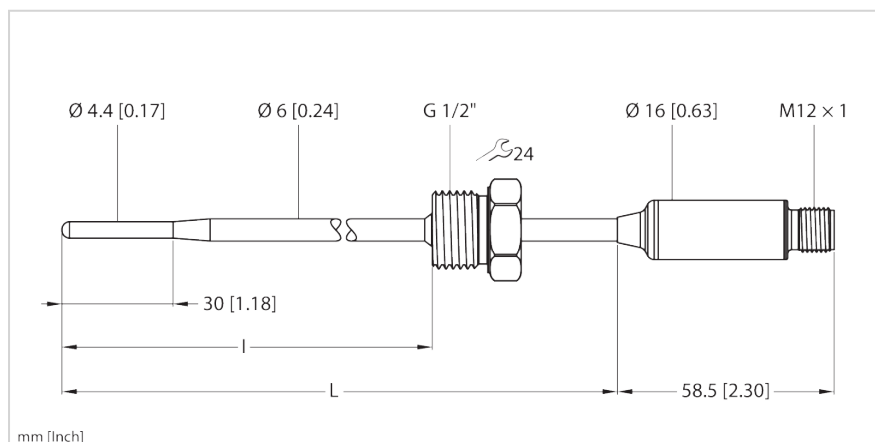


TTMS-206A-G1/2-LI6-H1140-L450/I400-0/500

Temperature detection with current output



Type designation	TTMS-206A-G1/2-LI6-H1140-L450/I400-0/500
Ident-No.	100012258

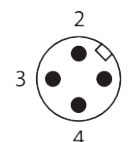
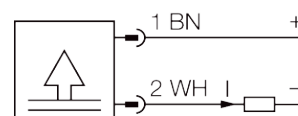
Technical data

General data	
Detection type	medium contact
Measuring principle	Media-contacting
Application area	
Bar length (L)	450 mm
Measuring element	Pt1000, DIN EN 60751, class A
Pressure resistance	100 bar
Detection area/measuring range	
Factory setting	0...500 °C
Factory setting	32...932 °F
Measuring range	-70...500 °C
Measuring range	-94...662 °F
Temperature	
Temperature measuring range	-70...500 °C
Power supply	
Operating voltage U_B	5...32 VDC
Power supply	
Electrical data	

Features

- Miniature design
- Analog output 4...20 mA
- Factory setting 0...500 °C
- Process connection G1/2" male thread
- Bendable probe (min. bending radius: 3 × outer diameter; excluding 30-mm probe tip)
- Probe tapered from 6 mm to 4.4 mm

Wiring Diagram



Technical data

Output function	Analog output
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Current consumption	≤ 20 mA
Insulation class	III

Outputs

Accuracy (Lin. + Hys. + Rep.)	±0,2 K
Current output	4...20 mA
Electrical output	Current output (2-wire)
Load	≤ 0.86 kΩ at 24 VDC [R _{Load} = (V _{supply} - 5 V)/22 mA]

Output 1	Analog output
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Accuracy/deviation

Temperature coefficient range TK _s	± 0,1 % v.E./10 K
Temperature coefficient zero point TK ₀	±0,1 % v.E./10 K

Mechanical data

Design	Without display (integrated probe)
Construction type designation	TTMS
Housing material	Stainless steel, 1.4404 (AISI 316L)
Electrical connection	Connector, M12 x 1
Outer diameter	4,4 mm
Immersion length (l)	400 mm
Process connection	G 1/2" male thread
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Mounting conditions	Immersion sensor

Ambient conditions

Ambient temperature	-40...+80 °C
Storage temperature	-40...+80 °C
Protection class	IP67

Tests/approvals

Approvals	CE
MTTF	162 Years acc. to SN 29500 (Ed. 99) 40 °C

Reference conditions

Auxiliary power	24 VDC
Atmospheric pressure	860...1060 hPa abs.

Functional principle

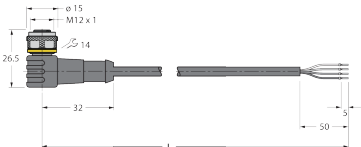
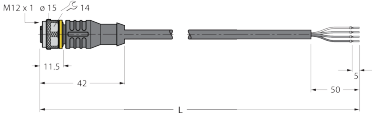
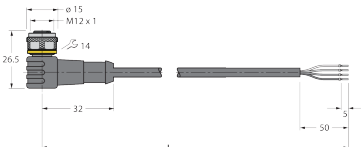
Temperatures are detected via a mineral-insulated probe and converted into a wide range of electrical output signals.

The devices in the TTM miniature product series are enclosed in a fully potted plastic housing and, depending on the variant, they have either an IO-link output, current output and/or switching output.

Technical data

Humidity	45...75 % rel.
Temperature	15...+25 °C
Comments	
Note	Probe tapered from 6 mm to 4.4 mm

Connection accessories

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