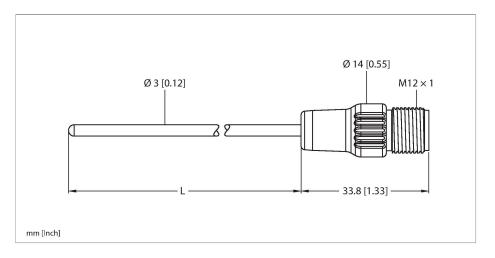


TP-203A-CF-H1141-L250 Temperature Detection – Probe





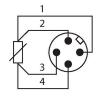
Туре	TP-203A-CF-H1141-L250
ID	9910404
Temperature range	
Measuring range	-50500 °C
	-58932 °F
Accuracy	±0.15 K + 0.002 • t (-30300 °C)
Self-heating	0.4 K/mW at 0 °C
Measuring element	Pt100, DIN EN 60751, class A; connection mode: 4-wire connection
Response time	t 0.5 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s
Immersion depth L	250 mm
Outer diameter	3 mm
Protection class	IP67
Environmental conditions	
Ambient temperature	-40+120 °C
Storage temperature	-40+85 °C
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Pressure resistance	100 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm²
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C



Features

- Process connection via compression fitting or thermowell
- Connection mode: 4-wire connection

Wiring diagram



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

Atmospheric pressure	8601060 hPa abs.	
Humidity	4575 % rel.	
Auxiliary power	24 VDC	
Tests/approvals		
Approvals	cULus	
UL registration number	E345414	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C	

Accessories

CF-M-3-G1/8-A4

9910405

Compression fitting for direct
mounting of temperature sensors;
sensor diameter 3 mm; process
connection G1/8" male thread

CF-M-3-N1/8-A4

Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/8" NPT male thread

9910406

9910408



CF-M-3-G1/4-A4 9910407

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection G1/4" male thread CF-M-3-N1/4-A4

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection 1/4" NPT male thread





Accessories

Dimension drawing	Туре	ID	
015 M12x1 26.5 32 	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 o 15 /2 14	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

Dimension drawing	Туре	ID	
M12x1 015 55 14 11.5 42 42	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12x 1 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

Accessories

Dimension drawing	Туре	ID	
	TTM-100-LIUPN-H1140	9910632	Miniature transmitter for external probes

