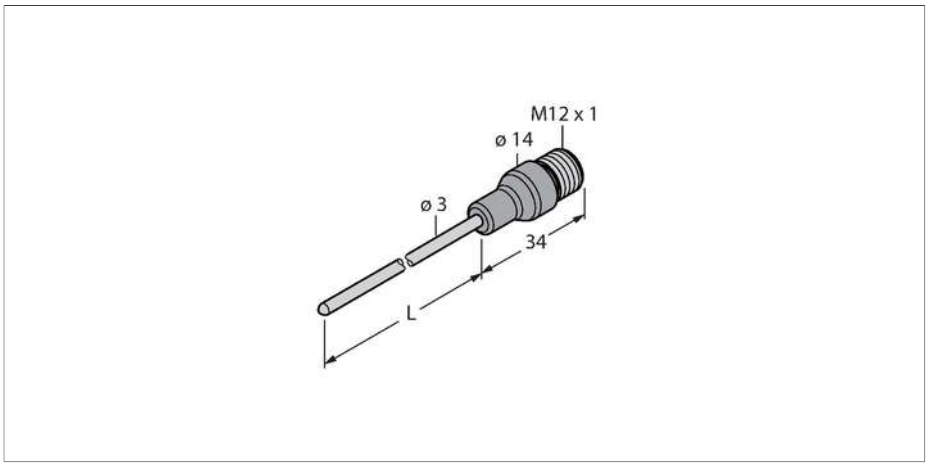
TP-203A-CF-H1141-L150
Temperature Detection – Probe



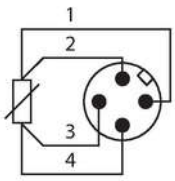
Technical data

Type	TP-203A-CF-H1141-L150
ID no.	9910403
Temperature range	
Measuring range	-50…500 °C
Temperature operating range	-58…932 °F
Accuracy	± 0.15 °C + 0.002 •|t| (-30…350 °C)
Measuring element	Pt-100 probe, DIN EN 60751, class A
Self-heating	0.4 K/mW at 0 °C
Response time	t 0.5 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s
Immersion depth (L)	150 mm
Pressure resistance	100 bar
Output function	4-wire
Housing material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Electrical connection	Connectors, M12 × 1
Protection class	IP67
Ambient temperature	-40…+85 °C
Storage temperature	-40…+85 °C
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	2283 years acc. to SN 29500 (Ed. 99) 20 °C

Features

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Connectable to TS, TTM, IM34, BL20, BL67
- Max. temperature connector: 120°C
- 4-wire connection technology

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.

TP-203A-CF-H1141-L150| 15-04-2021 21-07 | Technical modifications reserved

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Output function	4-wire
Ambient conditions	
Ambient temperature	-40…+85 °C
Storage temperature	-40…+85 °C
Housing	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
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Electrical connection	Connectors, M12 × 1
Reference conditions acc. to IEC 61298-1	
Temperature	15…+25 °C
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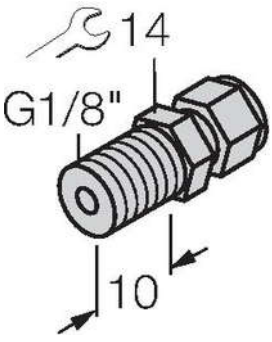
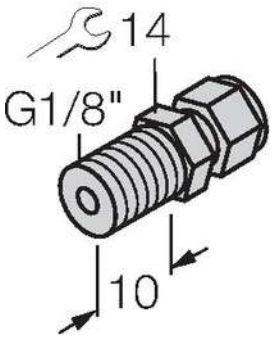
Accessories

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

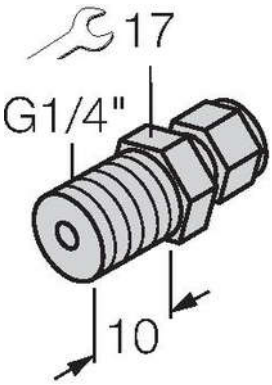
CF-M-3-N1/8-A4	9910406



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

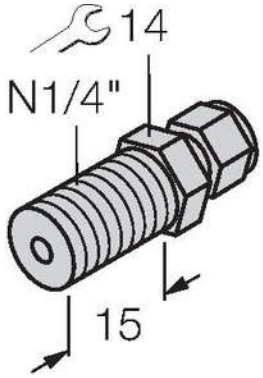
TP-203A-CF-H1141-L150| 15-04-2021 21-07 | Technical modifications reserved

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



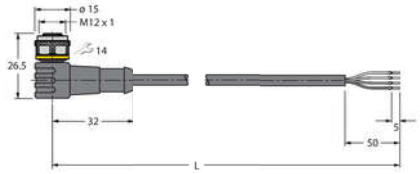
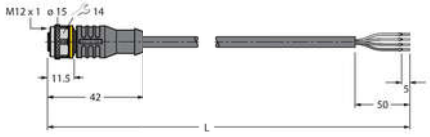
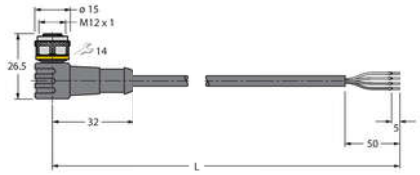
Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection G1/4" male thread

CF-M-3-N1/4-A4	9910408



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

Accessories

Dimension drawing	Type	ID no.	
	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKC4.4T-2/TXL	6625503	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC4.4T-2/TXL	6625515	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com

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