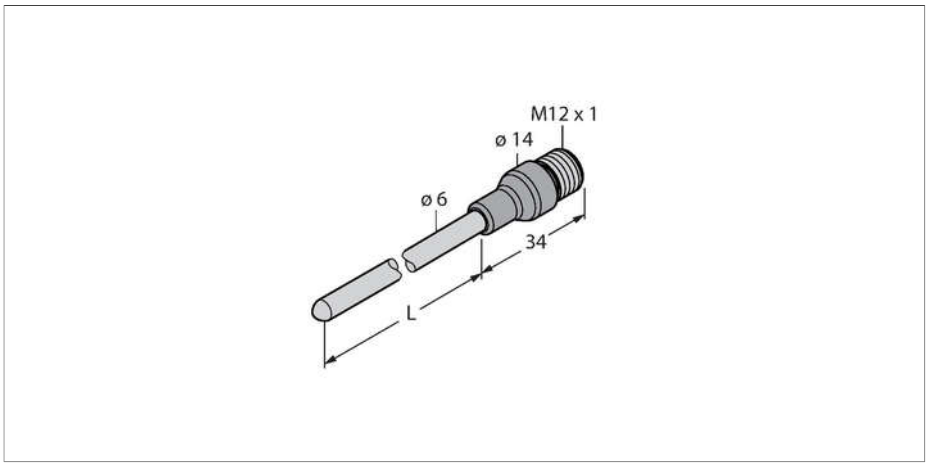
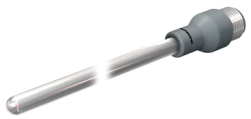
TP-206A-CF-H1141-L150
Temperature Detection – Probe





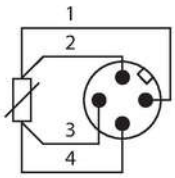
Technical data

Type	TP-206A-CF-H1141-L150
Ident. no.	9910476
Temperature range	
Measuring range	-50…500 °C
Temperature operating range	-58…932 °F
Accuracy	0.15 °C + 0.002 •|t| (-30 …350 °C)
Self-heating	0.4 K/mW at 0 °C
Measuring element	Pt-100 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)	150 mm
Protection type and class	IP67
Output function	4-wire
Ambient conditions	
Ambient temperature	-40…+120 °C
Storage temperature	-40…+85 °C
Housing	
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	Connectors, M12 × 1
Reference conditions acc. to IEC 61298-1	
Temperature	15…+25 °C
Atmospheric pressure	860…1060 hPa abs.

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.

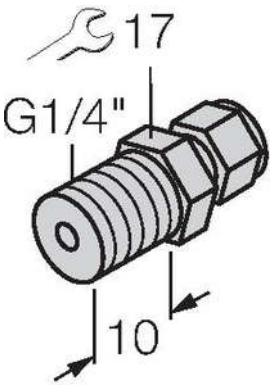
TP-206A-CF-H1141-L150| 19-11-2020 02-23 | Technical modifications reserved

Technical data

Humidity	45…75 % rel.
Auxiliary power	24 VDC
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C

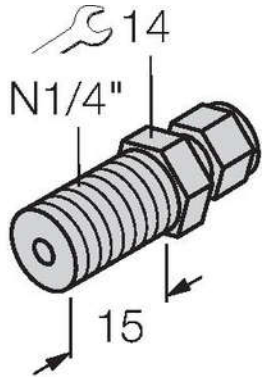
Accessories

CF-M-6-G1/4-A4 9910483



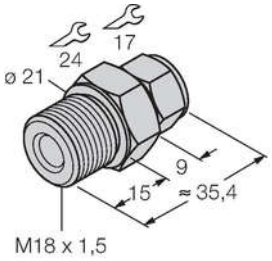
Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/4" male thread

CF-M-6-N1/4-A4 9910484



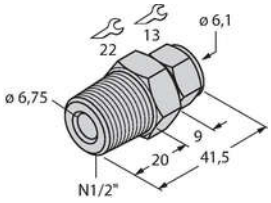
Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/4" NPT male thread

CF-M-6-M18-A4 9910525



Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection M18 × 1 male thread

CF-M-6-N1/2-A4 9910529



Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/2" NPT male thread

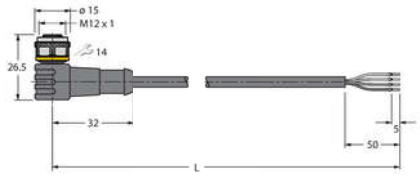
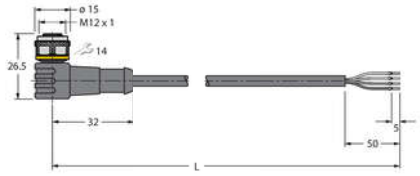
CF-M-6-G1/2-A4 9910530



Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/2" male thread

TP-206A-CF-H1141-L150| 19-11-2020 02-23 | Technical modifications reserved

Accessories

Dimension drawing	Type	Ident. 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

TP-206A-CF-H1141-L150| 19-11-2020 02-23 | Technical modifications reserved