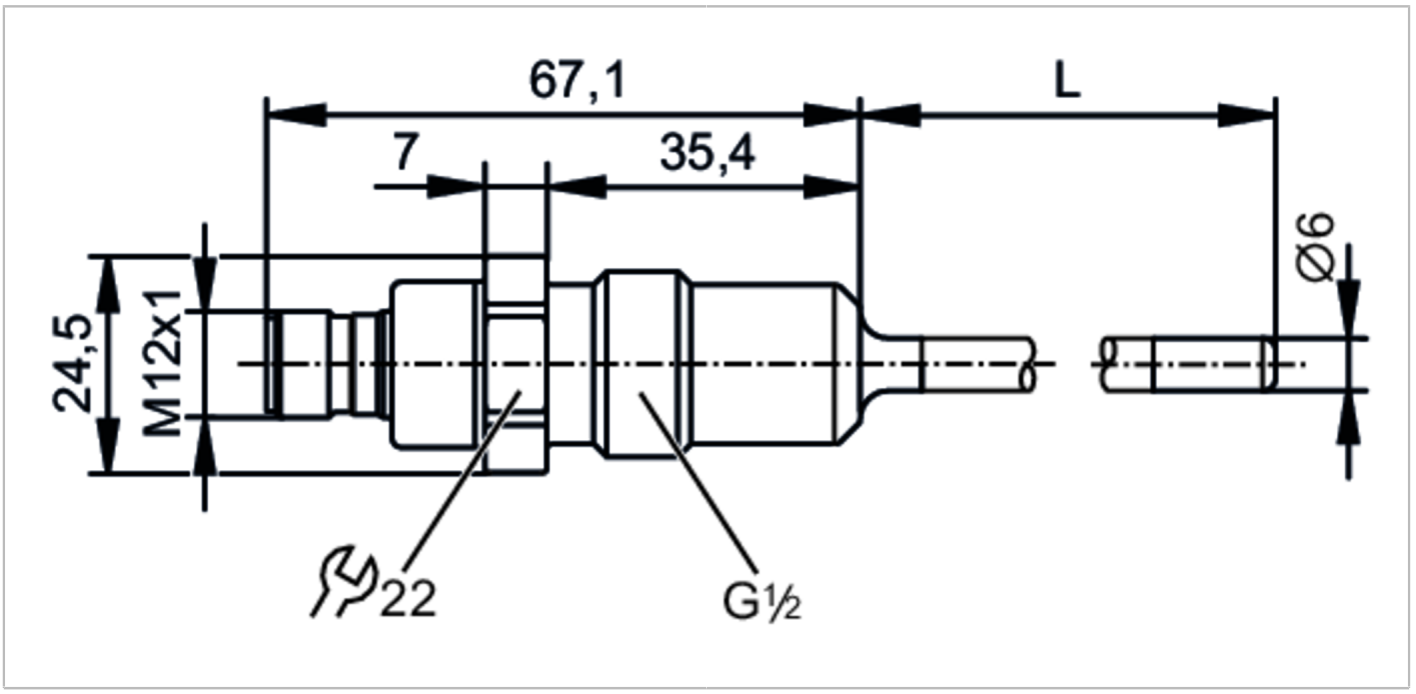
TM4501

Temperature sensor with process connection

TM-030KFER12- /US/



EC 1935/2004 EHEDG Tested FCM CN FCM JP Hygienic Cleanable

Product characteristics			
Measuring range		-40...150 °C	-40...302 °F
Process connection		threaded connection G 1/2 external thread sealing cone	
Installation length EL	[mm]	30	
Application			
Special feature		Gold-plated contacts	
Measuring element		1 x Pt 100; (to DIN EN 60751, class A)	
Media		liquids and gases	
Pressure rating		160 bar	16 MPa
Note on pressure rating		sensor When mounted in adapters the specifications of the adapter data sheet apply.	
Minimum installation depth	[mm]	15	
Electrical data			
Protection class		III	
Measuring/setting range			
Probe length L	[mm]	30	
Measuring range		-40...150 °C	-40...302 °F
Accuracy / deviations			
Accuracy	[K]	± (0,15 K + 0,002 x|t|)	
Response times			
Dynamic response T05 / T09	[s]	1 / 3; (to DIN EN 60751)	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-40...100	
Protection		IP 68; IP 69K	

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Tests / approvals			
Shock resistance		DIN EN 60068-2-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF	[years]	22831	
UL approval		UL approval no.	K004
		File number UL	E217884

Mechanical data		
Weight	[g]	134.5
Housing		cylindrical
Dimensions	[mm]	Ø 24.5 / L = 91.6
Materials		stainless steel (316L/1.4404)
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished
Tightening torque	[Nm]	30...50
Process connection		threaded connection G 1/2 external thread sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra < 0.8 µm
Probe diameter	[mm]	6
Installation length EL	[mm]	30

Remarks	
Remarks	operating voltage "supply class 2" according to cULus
	The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection

