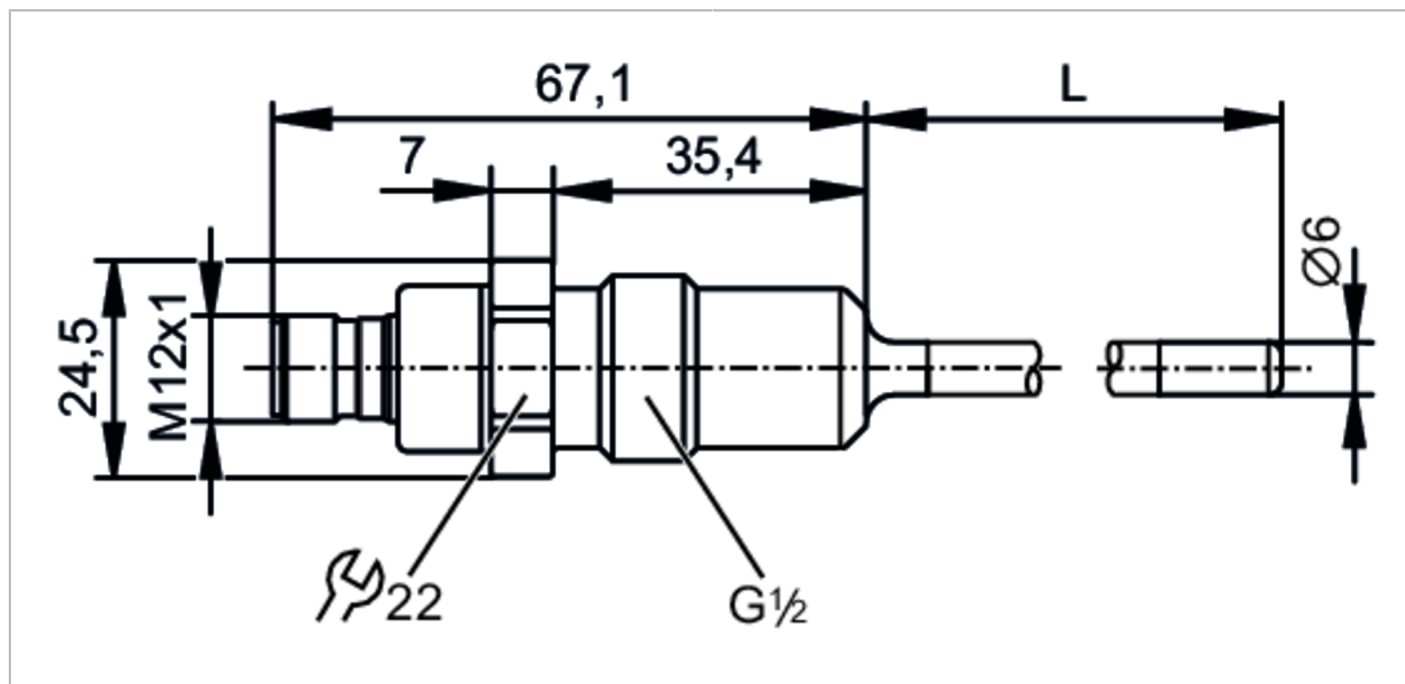


TM4501



Temperature sensor with process connection

TM-030KFER12- /US/



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		
System	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	
Minimum installation depth [mm]	When mounted in adapters the specifications of the adapter data sheet apply. 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)	
Reaction times		
Dynamic response T05 / T09 [s]	1 / 3; (according 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]		22831.05
Mechanical data		
Weight [g]		134.5
Housing		tubular
Dimensions [mm]		Ø 24.5 / L = 91.6
Material		stainless steel (1.4404 / 316L)
Materials (wetted parts)		stainless steel (1.4404 / 316L) 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		cULus - Class 2 source required The values for accuracy apply to flowing water.
Pack quantity		1 pcs.

Electrical connection

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



Connection

