

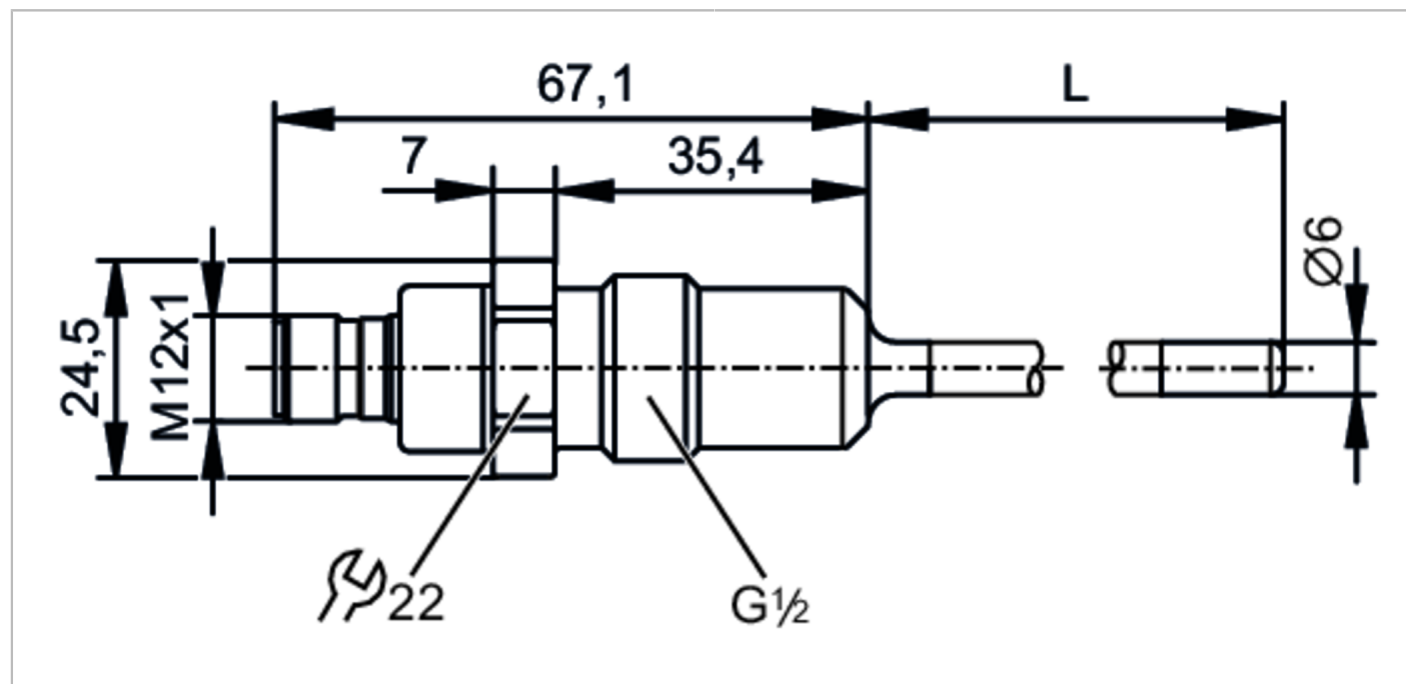
TM4531



Temperature sensor with process connection

TM-100KFER12-

/US/



FCM



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]	100	

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
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Measuring/setting range

Probe length L	[mm]	100	
Measuring range		-40...150 °C	-40...302 °F

Accuracy / deviations

Accuracy [K]	± (0,15 K + 0,002 x t)
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Reaction times

Dynamic response T05 / T09 [s]	1 / 3; (according to DIN EN 60751)
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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]	142
Housing		tubular
Dimensions	[mm]	Ø 24.5 / L = 161.6
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]	100
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

