TM4501

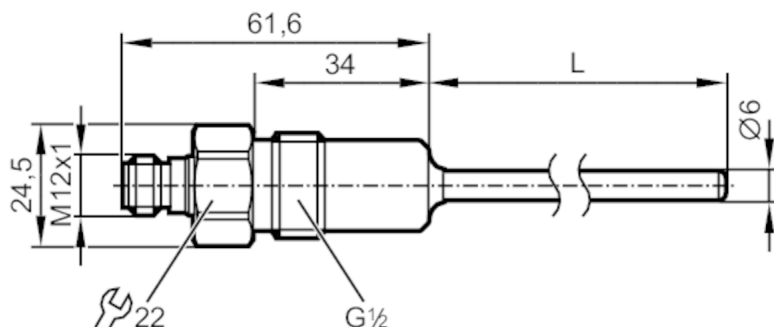### Temperature sensor with process connection

TM-030KFER12-   /US/

L =   Probe length corresponds to installation length EL

CE c(UL)us LISTED EC 1935/2004 EHEDG Tested FCM FDA

Product characteristics		
Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2 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 [bar]	160	
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|)

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

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

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Temperature sensor with process connection
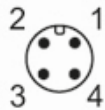
Material		stainless steel (1.4404 / 316L)
Materials (wetted parts)		stainless steel (1.4404 / 316L) electropolished
Tightening torque	[Nm]	30...50
Process connection		threaded connection G 1/2 sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra: < 0.8
Probe diameter	[mm]	6
Installation 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