TM4501

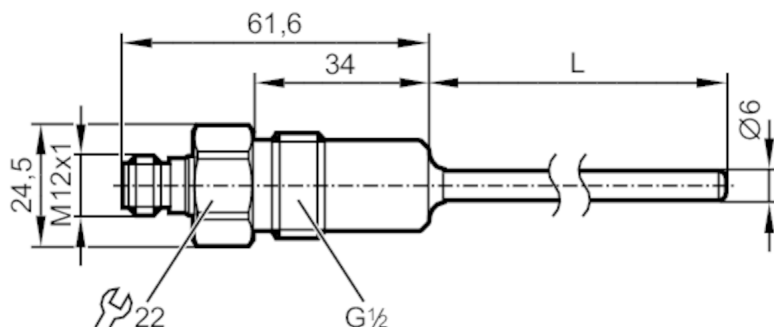### Temperature sensor with process connection

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		
Special feature	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]	$\pm (0{,}15\ K + 0{,}002 \times |t|)$	
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	
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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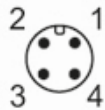|	
Materials	stainless steel (316L/1.4404)
Materials (wetted parts)	stainless steel (316L/1.4404) electropolished
Tightening torque [Nm]	30...50
Process connection	threaded connection G 1/2 sealing cone
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8
Probe diameter [mm]	6
Installation length 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: gold-plated

Connection