TM4441

Temperature sensor with process connection

TM-150KFBR12-　　/US/
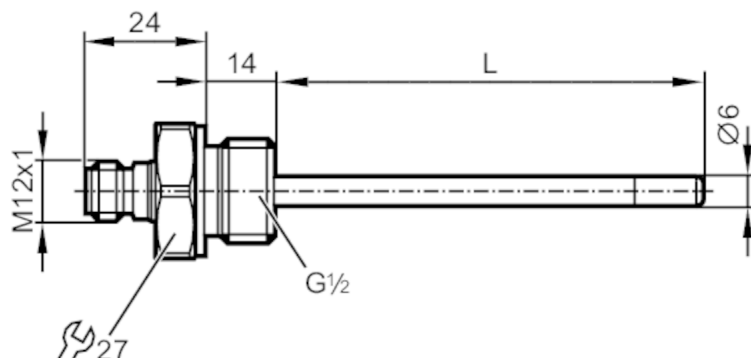
Product characteristics		
Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2	
Installation length EL　[mm]	150	

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	
Minimum installation depth　[mm]	15	

Electrical data	
Protection class	III

Measuring/setting range		
Probe length L　[mm]	136	
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	

Mechanical data	
Weight　[g]	183
Material	stainless steel (1.4404 / 316L)
Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM

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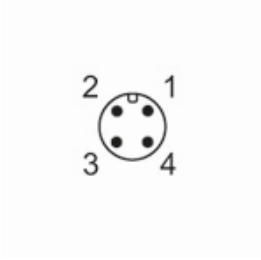
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Tightening torque	[Nm]	45
Process connection		threaded connection G 1/2
Probe diameter	[mm]	6
Installation length EL	[mm]	150

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