TM4441
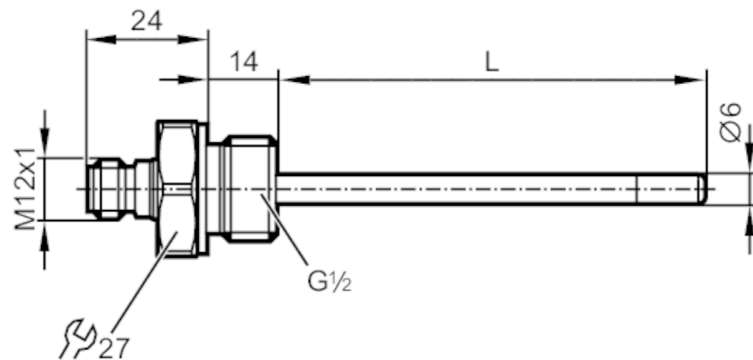
Temperature sensor with process connection

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

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
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|)

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	[ANN]	22831

Mechanical data

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

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Temperature sensor with process connection

TM-150KFBR12-   /US/

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

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