

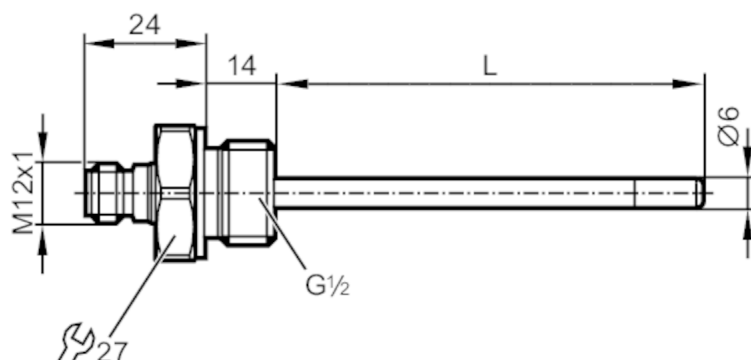
TM4431



Temperature sensor with process connection

TM-100KFBR12-

/US/



Product characteristics

Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2 external thread	
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
Minimum installation depth [mm]	15	

Electrical data

Protection class	III	
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Measuring/setting range

Probe length L [mm]	86	
Measuring range	-40...150 °C	-40...302 °F

Accuracy / deviations

Accuracy [K]	$\pm (0,15 K + 0,002 x t)$	
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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	

Tests / approvals

Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [years]	22831	

Mechanical data

Weight [g]	134	
Housing	tubular	
Dimensions [mm]	Ø 30 / L = 124	

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Material	stainless steel (1.4404 / 316L)
Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM
Tightening torque [Nm]	45
Process connection	threaded connection G 1/2 external thread
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: 4, gold-plated



Connection

