

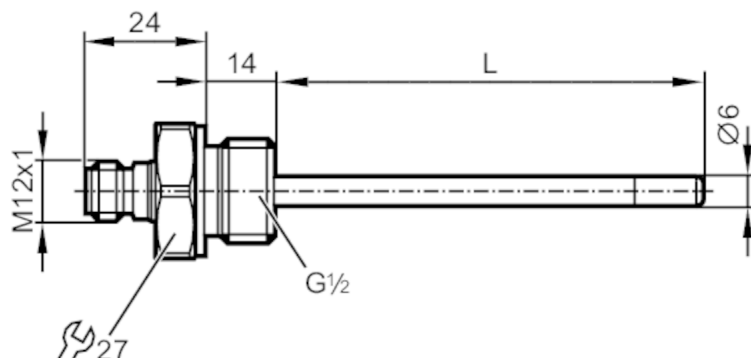
# TM4431



## 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	
Installation length EL [mm]	100	

### 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
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### Measuring/setting range

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

### Accuracy / deviations

Accuracy [K]	± (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
Material	stainless steel (1.4404 / 316L)
Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM

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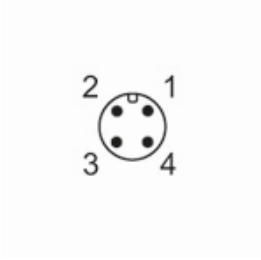
TM-100KFBR12- /US/

Tightening torque	[Nm]	45
Process connection		threaded connection G 1/2
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: gold-plated



Connection

