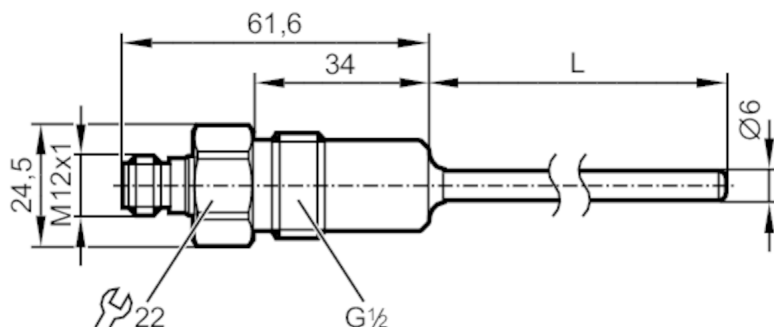




## Temperature sensor with process connection

TM-050KFER12-

/US/



L = probe length corresponds to installation length EL



### Product characteristics

Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2 sealing cone	
Installation length EL [mm]	50	

### 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
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### Measuring/setting range

Probe length L	[mm]	50	
Measuring range		-40...150 °C	-40...302 °F

### Accuracy / deviations

Accuracy [K]	± (0,15 K + 0,002 x t )
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### Response times

Dynamic response T05 / T09 [s]	1 / 3; (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]	22831.05	

### Mechanical data

Weight [g]	136.5
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## Temperature sensor with process connection

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/US/

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]	50

## 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

