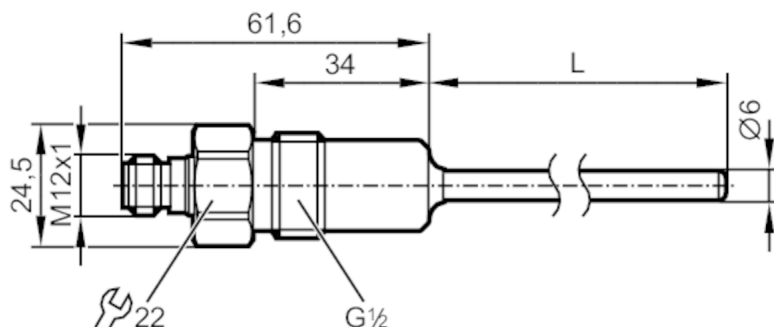




## Temperature sensor with process connection

TM-100KFER12-

/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]	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
Note on pressure rating	sensor
Minimum installation depth [mm]	15
When mounted in adapters the specifications of the adapter data sheet apply.	

## Electrical data

Protection class	III
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## Measuring/setting range

Probe length L	[mm]	100	
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]	22831.05	

## Mechanical data

Weight [g]	142
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# TM4531



## Temperature sensor with process connection

TM-100KFER12- /US/

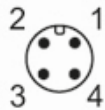
Material	stainless steel (1.4404 / 316L)
Materials (wetted parts)	stainless steel (1.4404 / 316L) electropolished
Tightening torque [Nm]	30...50
Process connection	threaded connection G 1/2 sealing cone
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8
Probe diameter [mm]	6
Installation length EL [mm]	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

