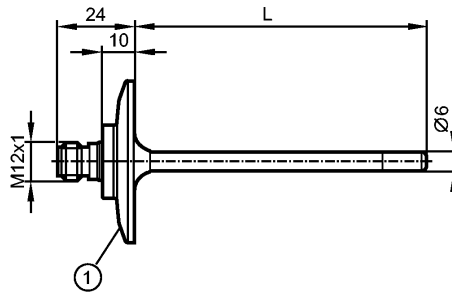


**TM4831**

TM-100KFEC01- /US/

Temperature sensors



1: 1.5" clamp (ISO 2852)

L = probe length (corresponds to installation length EL)



EC 1935/2004 EHEDG Certified FDA



**Product characteristics**

Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V

Connector

Process connection: Clamp 1-1.5"  
ISO 2852

Installation length EL: 100 mm

Gold-plated contacts

Connection to control monitor TP / TR

Measuring range: -40...150 °C / -40...302 °F

Measuring element: 1 x Pt 100, to DIN EN 60751, class A

**Application**

Application liquids and gases (especially for application in hygienic systems)

Pressure rating [bar] 25

Minimum installation depth [mm] 15

**Electrical data**

Connection to control monitor TP / TR

Protection class III

**Measuring / setting range**

Measuring range -40...150 °C -40...302 °F

**Accuracy / deviations**

Accuracy ± (0.15 K + 0.002 x |t|)

**Reaction times**

Dynamic response T05 / T09 [s] 1 / 3 \*)

**Environment**

Ambient temperature [°C] -25...80

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 [Years] 22831

**Mechanical data**

Process connection Clamp 1-1.5"  
ISO 2852

Materials (wetted parts) stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolished



## TM4831

TM-100KFEC01- /US/

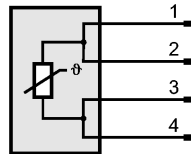
Temperature sensors

Probe diameter	[mm]	6
Probe length L	[mm]	100
Installation length EL	[mm]	100
Housing materials		stainless steel 316L / 1.4404
Weight	[kg]	0.187

### Electrical connection

Connection	M12 connector; Gold-plated contacts
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### Wiring



### Remarks

Remarks	cULus - Class 2 source required *) according to DIN EN 60751 The values for accuracy apply to flowing water.
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Pack quantity	[piece]	1
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