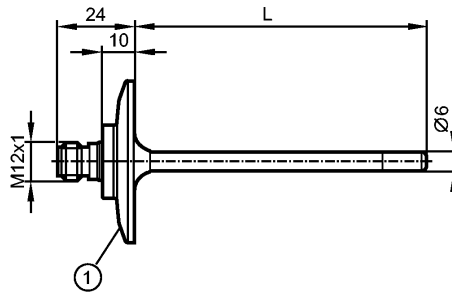


**TM4831**

TM-100KFEC01- /US/

Temperature sensors



1: 1.5" clamp (ISO 2852)

L = probe length (corresponds to installation length EL)



UL<sup>®</sup> US LISTED EC 1935/2004 EHEDG Certified FDA

**Product characteristics**

Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V
Quick disconnect
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
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**Accuracy / deviations**

Accuracy	$\pm (0.15 K + 0.002 \times  t )$
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**Reaction times**

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

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
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
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## TM4831

TM-100KFEC01- /US/

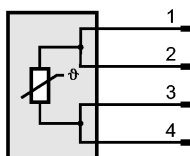
Temperature sensors

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