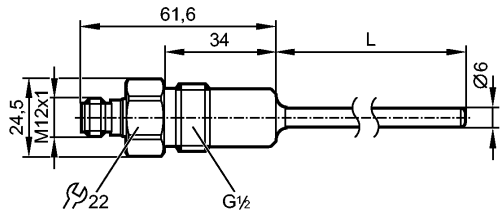
TM4511

TM-050KFER12- /US/

Temperature sensors



L = probe length (corresponds to installation length EL)

EC 1935/2004 EHEDG Certified

Product characteristics			
Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V			
Quick disconnect			
Process connection: G½ with sealing cone			
Installation length EL: 50 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	
Pressure rating	[bar]	160; only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply	
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	
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]	22831.05	
Mechanical data			
Process connection		G½ with sealing cone	
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolished	
Probe diameter	[mm]	6	
Probe length L	[mm]	50	
Installation length EL	[mm]	50	

efector600

TM4511

TM-050KFER12- /US/

Temperature sensors

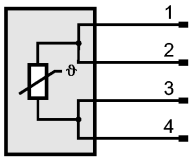
Housing materials		stainless steel 316L / 1.4404
Tightening torque	[Nm]	30...50
Weight	[kg]	0.136

Electrical connection

Connection	M12 connector; gold-plated contacts

Wiring





Remarks

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