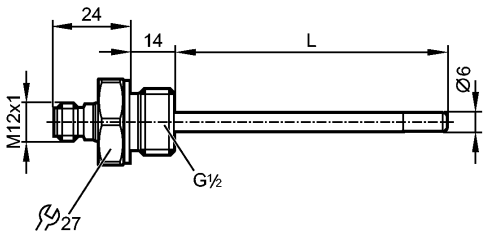
efector600

TM4431

TM-100KFBR12- /US/

Temperature sensors



c UL us LISTED

Product characteristics

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

Quick disconnect

Process connection: G ½

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
Pressure rating	[bar]	160
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

Mechanical data

Process connection		G ½
Materials (wetted parts)		stainless steel 316L / 1.4404; FPM (Viton)
Probe diameter	[mm]	6
Probe length L	[mm]	86
Installation length EL	[mm]	100
Housing materials		stainless steel 316L / 1.4404

TM4431

TM-100KFBR12- /US/

Temperature sensors

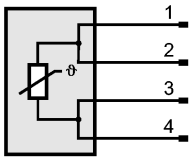
Weight	[kg]	0.13

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