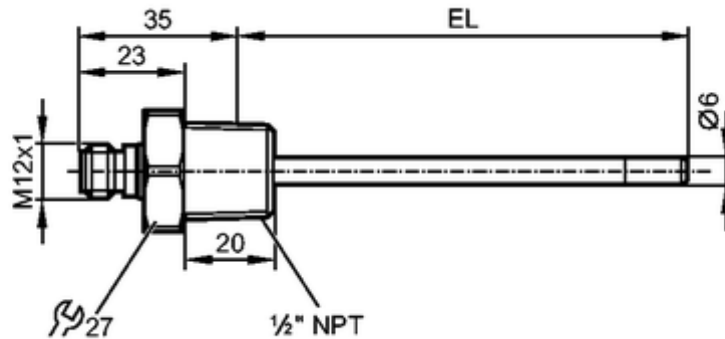


**efector600****TM4311**

TM-050KFBN12- /US/

Temperature sensors

**Product characteristics**

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

Quick disconnect

Process connection: 1/2" NPT

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
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 60068-2-27:	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [Years]		22831

Mechanical data	
Process connection	1/2" NPT
Materials (wetted parts)	stainless steel 316L / 1.4404
Probe diameter [mm]	6
Probe length L [mm]	42
Installation length EL [mm]	50
Housing materials	stainless steel 316L / 1.4404
Weight [kg]	0.134

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

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