

New generation available: TA2511 or TA2531

When selecting an alternative article and accessories please note that technical data may differ!

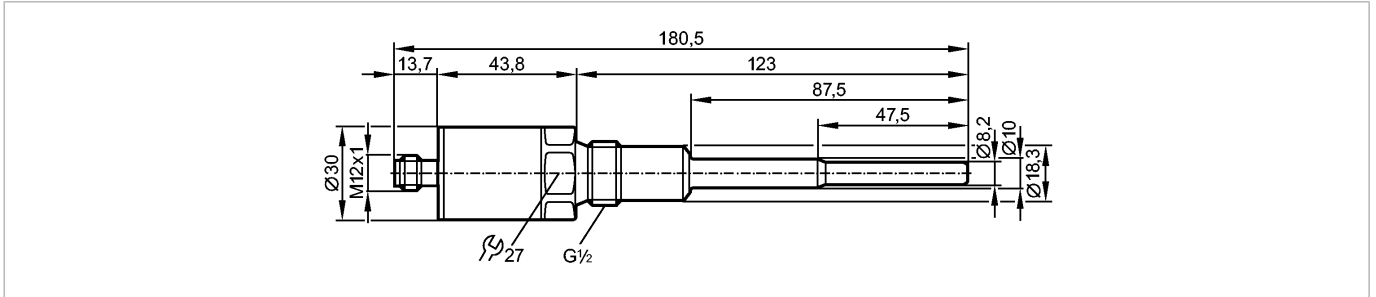
efector600

TA3431



TA-123.LDR12-A-ZVG/US/

Temperature sensors



Product characteristics

Temperature transmitter

Quick disconnect

Process connection: G 1/2 A

Installation length EL: 87.5 mm

Max. medium temperature

150°C / 302°F (max. 40 perc)

Analog output

Measuring range: -10...150 °C / 14...302 °F

Measuring element: 1 x Pt 1000, to DIN EN 60751, class A

Application

Application

liquids and gases

Pressure rating

[bar]

300; 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

Electrical design

DC

Operating voltage

[V]

10...30 DC ¹⁾

Protection class

III

Reverse polarity protection

yes

Outputs

Output

Analog output

Output function

4...20 mA analog

Overload protection

yes

Analog output

4...20 mA; Rmax: 500 Ω

Measuring / setting range

Measuring range

-10...150 °C

14...302 °F

Resolution

Analog output

[K]

< 0.02

Accuracy / deviations

Analog output

[K]

± 0.3

Temperature coefficients (in % of the span per 10 K)

< ± 0.1 *****

Reaction times

Dynamic response

T05 / T09 [s]

1 / 3 *)

Environment

Ambient temperature

[°C]

-25...70

Storage temperature

[°C]

-40...100

Protection

IP 68 / IP 69K

Tests / approvals

EMC

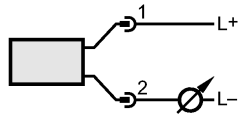
EN 61000-4-2 ESD:

4 kV CD / 8 kV AD

TA3431 - Temperature transmitter - eclass: 27200208 / 27-20-02-08

	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-5 Surge:	0.5/1 kV
	EN 61000-4-6 HF conducted:	10 V
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]		1119
Mechanical data		
Process connection	G ½ A	
Materials (wetted parts)	stainless steel 316L / 1.4404	
Probe length L [mm]	47.5	
Installation length EL [mm]	87.5	
Housing materials	stainless steel 316L / 1.4404; stainless steel (304S15); stainless steel (303S22); PA	
Tightening torque [Nm]	30...50	
Weight [kg]	0.232	
Electrical connection		
Connection	M12 connector; gold-plated contacts	

Wiring



Remarks

Remarks

1) to EN50178, SELV, PELV;
referring to UL: For use on a low voltage circuit with overcurrent protection in accordance with UL873 Tab. 28.1 or $I_{max} = 100/U_b$ (U_b = voltage of the circuit).
*) according to DIN EN 60751
*****) In case of deviation from the reference condition $25 \pm 5 \text{ }^\circ\text{C}$
The values for accuracy apply to flowing water.

Pack quantity [piece]

1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — TA3431 — 14.05.2013

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