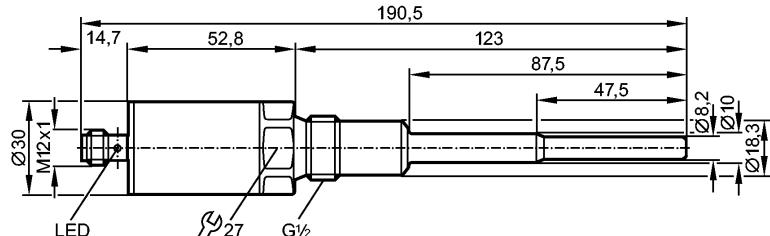


**TAA431**

TAA123CCDR12-ASIVG/US

Temperature sensors



CE EC 1935/2004 EHEDG Certified

**Product characteristics**

Temperature transmitter

Quick disconnect

Process connection: G 1/2 A

Installation length EL: 87.5 mm

AS-i profile S-7.3

Max. medium temperature

150°C / 302°F (max. 40 perc)

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	AS-i
Operating voltage [V]	18...31.6 DC (AS-i)
Current consumption [mA]	< 25
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output function	Analog value (16 bit value incl. sign)
Overload protection	yes

**Measuring / setting range**

Measuring range	-10...150 °C	14...302 °F
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Resolution

Analog output [K]	0.05
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**Accuracy / deviations**

Analog output [K]	± 0.1 (60°C / 140°F) / ± 0.3 (0..140°C / 32..284°F)
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Temperature coefficients (in % of the span per 10 K)	< ± 0.1 *****)
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**Reaction times**

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

Ambient temperature [°C]	-25...70
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**TAA431**

TAA123CCDR12-ASIVG/US

Temperature sensors

Storage temperature	[°C]	-40...100
Protection		IP 68 / IP 69K
<b>Tests / approvals</b>		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD 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 IEC 68-2-27: 50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6 20 g (10...2000 Hz)
MTTF	[Years]	348
<b>AS-i classification</b>		
AS-i version		2.11
AS-i profile		S-7.3.C
I/O configuration [hex]		7
ID code [Hex]		3.C
<b>Mechanical data</b>		
Process connection		G ½ A
Materials (wetted parts)		stainless steel 316L / 1.4404
Probe length L	[mm]	87.5
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]	0.262
<b>Displays / operating elements</b>		
Display		Function display LED green (operate); red (error)
<b>Electrical connection</b>		
Connection		M12 connector; gold-plated contacts
<b>Wiring</b>		
2	1	
3	4	
<b>Remarks</b>		
Remarks		*) according to DIN EN 60751 *****) In case of deviation from the reference condition $25 \pm 5^\circ\text{C}$ The values for accuracy apply to flowing water. 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).
Pack quantity	[piece]	1