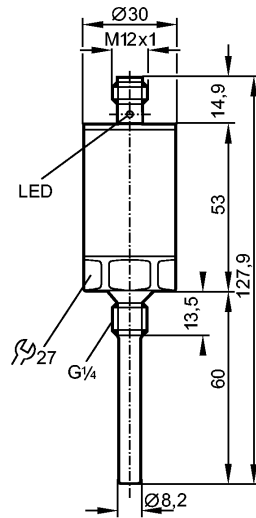


TAA131

TAA060CCDR14-ASIVG/US

Temperature sensors



Product characteristics

Temperature transmitter
Quick disconnect
Process connection: G ¼ A
Installation length EL: 60 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]	400
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
Resolution		
Analog output [K]		0.05

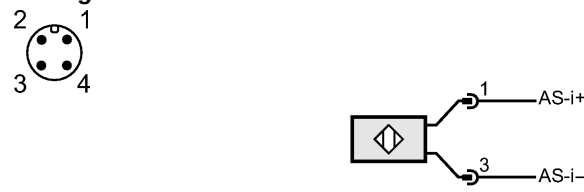
Accuracy / deviations

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

TAA131

TAA060CCDR14-ASIVG/US

Temperature sensors

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 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
AS-i classification	
AS-i version	2.11
AS-i profile	S-7.3.C
I/O configuration [hex]	7
ID code [Hex]	3.C
Mechanical data	
Process connection	G ¼ A
Materials (wetted parts)	stainless steel 316L / 1.4404
Probe length L	[mm] 60
Installation length EL	[mm] 60
Housing materials	stainless steel 316L / 1.4404; stainless steel (304S15); stainless steel (303S22); PA
Weight	[kg] 0.165
Displays / operating elements	
Display	Function display LED green (operate); red (error)
Electrical connection	
Connection	M12 connector; gold-plated contacts
Wiring 	
Remarks	
Remarks	*) according to DIN EN 60751 *****) In case of deviation from the reference condition 25 ± 5 °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