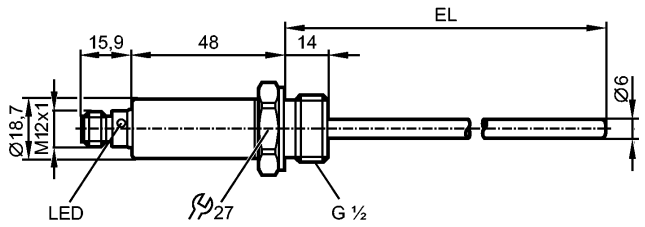
efector600

TA2415

TA-050CLER12-A-ZVG/US

Temperature sensors



Product characteristics	
Temperature transmitter	
Quick disconnect	
Process connection: G ½	
Installation length EL: 50 mm	
Analog output 4...20 mA	
Measuring range: -50...150 °C	
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A	
Factory setting: -50...150 °C	
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
Electrical data	
Electrical design	DC
Operating voltage [V]	18...32 DC; cULus - Class 2 source required
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes
Outputs	
Output function	4...20 mA analog
Short-circuit protection	yes
Overload protection	yes
Analog output	4...20 mA
Max. load [Ω]	250 (18...19 V); 300 (19...32 V)
Measuring / setting range	
Measuring range °C	-50...150
Factory setting	-50...150 °C
Resolution	
Analog output [K]	≤ 0.04
Accuracy / deviations	
Analog output [K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)	0.1
Reaction times	
Power-on delay time [s]	1
Dynamic response T05 / T09 [s]	1 / 3

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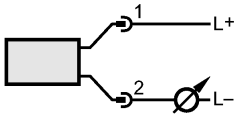
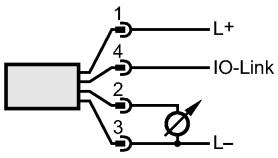
Temperature sensors

Interfaces			
IO-Link Device			
Transfer type			COM2 (38.4 kBaud)
IO-Link revision			1.1
Environment			
Ambient temperature	[°C]		-25...80
Storage temperature	[°C]		-40...100
Protection			IP 67 / IP 68 / IP 69K
Tests / approvals			
EMC			DIN EN 61000-6-2
Shock resistance		DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6:	20 g (10...2000 Hz)
MTTF	[Years]		572
UL approval number			K002
Mechanical data			
Process connection			G ½
Materials (wetted parts)			stainless steel 316L / 1.4404; O-ring: FKM
Probe diameter	[mm]		6
Installation length EL	[mm]		50
Housing materials			stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]		0.113
Displays / operating elements			
Display			operating status 1 x LED green
Electrical connection			
Connection			M12 connector; gold-plated contacts

Wiring







Remarks			
Remarks			MS = set measuring span
Pack quantity	[piece]		1