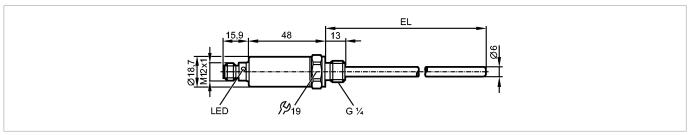
efector600°

TA2105

TA-025CLER14-A-ZVG/US



Temperature sensors



C € cUlus **⊗ IO**-Link

Product characteristics					
Temperature transmitte	Temperature transmitter				
Connector					
Process connection: G 1/4					
Installation length EL: 25 mm					
Analogue output 420 mA					
Measuring range: -50150 °C					
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A					
Factory setting: -50150 °C					
Application					
Application		liquids and gases			
Pressure rating	[bar]	400; 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]	1832 DC; "supply class 2" to cULus.			
Current consumption	[mA]	< 50			
5		III			
Protection class					
Reverse polarity prote	ction	yes			
	ction	yes			
Reverse polarity prote	ction	yes 420 mA analogue			
Reverse polarity prote Outputs					
Reverse polarity prote Outputs Output function		420 mA analogue			
Reverse polarity prote Outputs Output function Short-circuit protection		420 mA analogue yes			
Outputs Output function Short-circuit protection Overload protection		420 mA analogue yes yes			
Outputs Output function Short-circuit protection Overload protection Analogue output	n [Ω]	420 mA analogue yes yes 420 mA			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load	[Ω]	420 mA analogue yes yes 420 mA			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting I Measuring range Factory setting	n [Ω]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V)			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting the Measuring range Factory setting Resolution	[Ω]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output	[Ω] range °C	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output Accuracy / deviation	[Ω] range °C [K]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C ≤ 0.04			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output Accuracy / deviation Analogue output	range °C [K]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output Accuracy / deviation	range °C [K]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C ≤ 0.04			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output Accuracy / deviation Analogue output Temperature coefficien	range °C [K]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C ≤ 0.04 ± 0.3 + (± 0.1 % MS)			
Reverse polarity prote Outputs Output function Short-circuit protection Overload protection Analogue output Max. load Measuring / setting r Measuring range Factory setting Resolution Analogue output Accuracy / deviation Analogue output Temperature coefficier span per 10 K)	range °C [K]	420 mA analogue yes yes 420 mA 250 (1819 V); 300 (1932 V) -50150 -50150 °C ≤ 0.04 ± 0.3 + (± 0.1 % MS)			

efector600

TA2105

TA-025CLER14-A-ZVG/US



Temperature sensors

Interfaces				
IO-Link Device				
Transfer type		COM2 (38.4 kBaud)		
IO-Link revision		1.1		
Environment				
Ambient temperature	[°C]	-2580		
Storage temperature	[°C]	-40100		
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 (102000 Hz)		
MTTF	[Years]	572		
UL approval number		K002		
Mechanical data				
Process connection		G 1/4		
Materials (wetted parts)		stainless steel 316L / 1.4404; O-ring: FKM		
Probe diameter	[mm]	6		
Installation length EL	[mm]	25		
Housing materials		stainless steel 316L / 1.4404; PEI; FKM		
Weight	[kg]	0.068		
Displays / operating elem	nents			
Display		operating status 1 x LED green		
Electrical connection				
Connection		M12 connector; Gold-plated contacts		
Wiring				
3 4		1 L+ L+ 10-Link		
L	<u> </u>	2 2		
	\ <u>=</u>)	<u> </u>		
Remarks				
Remarks		MS = set measuring span		
Pack quantity	[njece]			
Pack quantity	[piece]	1		

 $ifm\ electronic\ gmbh\ \bullet\ Friedrichstraße\ 1\ \bullet\ 45128\ Essen\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ GB\ -\ TA2105\ -\ 12.02.2014$