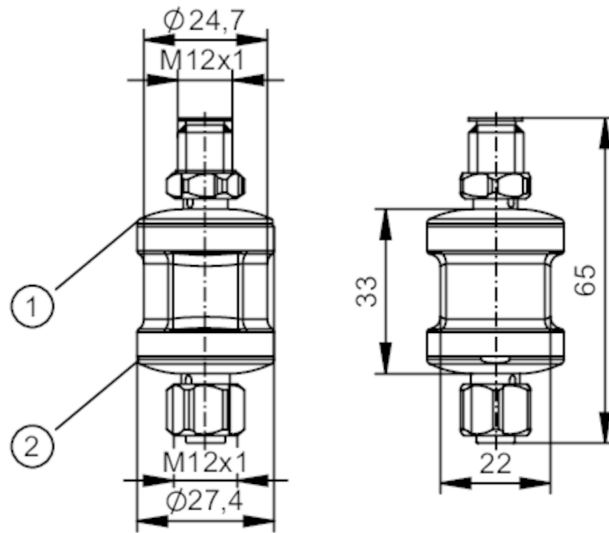


TP2001



Temperature plug for hygienic applications

TP-CDC-AFZVG/US/



- 1 LED switching status indication
2 LED voltage indication

Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1	
Measuring range	-100...300 °C	-148...572 °F
Communication interface	IO-Link	

Application

Special feature	Gold-plated contacts
Application	for Pt100 and Pt1000 measuring elements

Electrical data

Operating voltage	[V]	18...32 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	2
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
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Outputs

Total number of outputs		2
Output signal		analogue signal; IO-Link; switching signal; (configurable)
Electrical design		PNP/NPN
Number of digital outputs		1
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	100
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	(Ub-13,5)/0,0215



Temperature plug for hygienic applications

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Short-circuit protection	yes	
Type of short-circuit protection	not locked in place	
Overload protection	yes	
Measuring/setting range		
Measuring range	-100...300 °C	-148...572 °F
Factory setting	-10...150 °C	
Resolution of analogue output [K]	0.017; (MS: -10...150 °C)	
Accuracy / deviations		
Precision analogue output [K]	± 0,1; (MS: -10...150 °C) ; or ± (0,067 % MS)	
Precision IO-Link [K]	± 0,05	
Temperature coefficient analogue output [% of the span / 10 K]	< 0,1	
Temperature coefficient IO-Link [% of the span / 10 K]	< 0,06	
Response times		
Max. measuring/display cycle [ms]	350	
Software / programming		
Parameter setting options	scaling of the analogue output; calibration adjustment; hysteresis / window; switching logic; simulation mode	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1.3	
IO-Link resolution temperature [K]	0.01	
Operating conditions		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...85	
Protection	IP 68; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-6-2	if frequencies above 40 MHz occur, the housing must be grounded
	DIN EN 61000-6-3	
Shock resistance	DIN EN 68000-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
Mechanical data		
Weight [g]	53.85	
Housing	cylindrical	
Dimensions [mm]	Ø 27.4 / L = 65	
Materials	LED: PA; housing: stainless steel (316L/1.4404)	
Sealing material	FKM	

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Temperature plug for hygienic applications

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Displays / operating elements

Display	status	1 x LED, green
	switching status	1 x LED, orange

Remarks

Remarks	MS = set measuring span
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Moulded body: TPU; Locking: stainless steel (316L/1.4404); Sealing: FKM; Contacts: gold-plated



Connection

