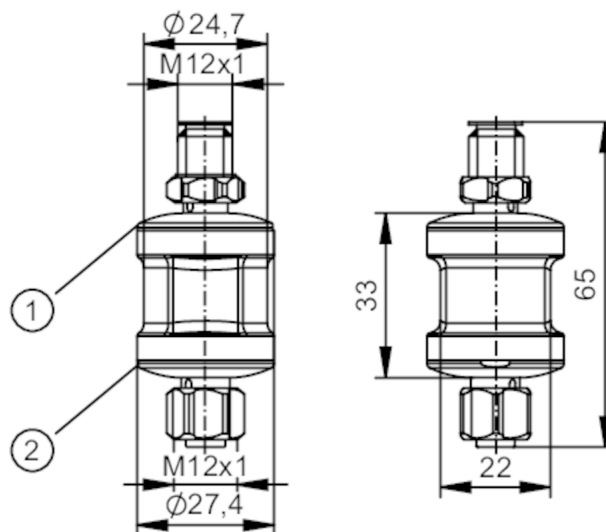


Temperature plug for hygienic applications

TP-FDC-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 [°F]	-148...572
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



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TP-FDC-AFZVG/US/

Max. load	[Ω]	(Ub-13,5)/0,0215
Short-circuit protection		yes
Type of short-circuit protection		not locked in place
Overload protection		yes
Measuring/setting range		
Measuring range	[°F]	-148...572
Factory setting		0...300 °F
Resolution of analogue output	[K]	0.032; (MS: 0...300 °F)
Accuracy / deviations		
Precision analogue output	[K]	± 0,18; (MS: 0...300 °F) ; or ± (0,067 % MS)
Precision IO-Link	[K]	± 0,09
Temperature coefficient analogue output		< 0,1
	[% of the span / 10 K]	
Temperature coefficient IO-Link		< 0,06
	[% of the span / 10 K]	
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]	0.02
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]	53.7
Housing		cylindrical
Dimensions	[mm]	Ø 27.4 / L = 65
Materials		LED: PA; housing: stainless steel (316L/1.4404)
Sealing material		FKM

TP2003



Temperature plug for hygienic applications

TP-FDC-AFZVG/US/

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

