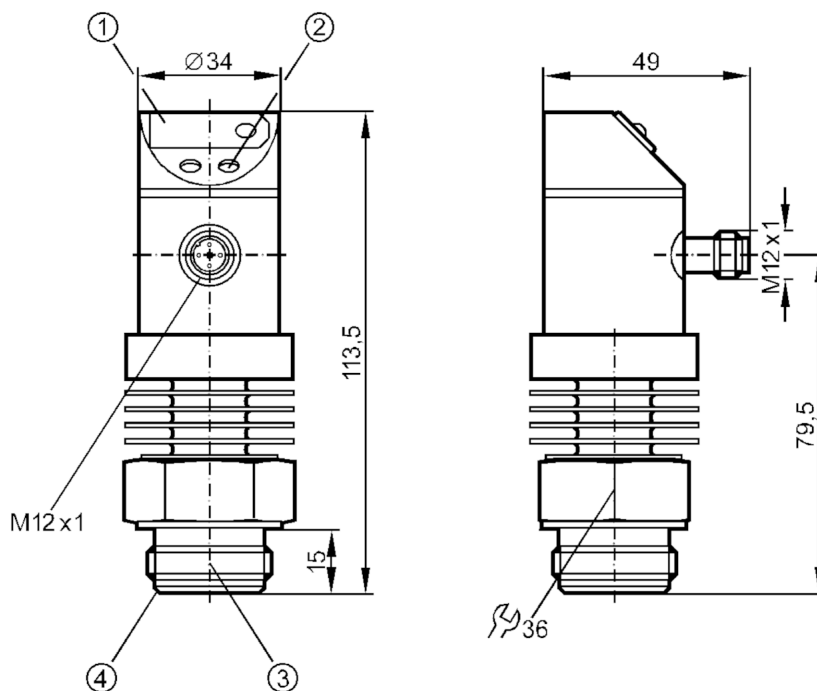




Flush pressure sensor with display

PI-2,5-RES30-KFPKG/US/.../P

Article no longer available - archive entry



- 1 7-segment LED display
- 2 Programming button
- 3 Aseptoflex thread
- 4 Aseptoflex sealing edge



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [bar]	0...2.5
Process connection	threaded connection Aseptoflex external thread Aseptoflex

Application

System	gold-plated contacts
Application	flush mountable for the food and beverage industry
Installation	Freely rotatable housing 350°
Media	viscous media and liquids with suspended particles; liquids and gases
Medium temperature [°C]	-25...125; (145 max. 1h)
Min. bursting pressure [bar]	50
Pressure rating [bar]	20
Type of pressure	relative pressure
No dead space	yes

Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes



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Power-on delay time	[s]	0.2
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analog signal; (configurable)
Electrical design		PNP
Number of digital outputs		1
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Number of analog outputs		1
Analog current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...2.5
Set point SP	[bar]	0.125...2.5
Reset point rP	[bar]	0.075...2.475
In steps of	[bar]	0.025
Accuracy / deviations		
Switch point accuracy	[% of the final value]	< ± 1,5
Repeatability	[% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the final value]	< ± 1,0
Temperature drift per 10 K		< ± 0.3
Reaction times		
Switching frequency for a given set response time of one output	Response time [ms] (dAP)	3 6 10 17 30 60 125 250 500
	Switching frequency [Hz]	170 80 50 30 16 8 4 2 1
Response time	[ms]	at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50
Max. response time analog output	[ms]	3
Software / programming		
Adjustment of the switch point		Programming button



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Parameter setting options	hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping
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Operating conditions

Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 65

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 61000-4-6 HF conducted	10 V
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)

Mechanical data

Dimensions	[mm]	Ø 34 / L = 113.5
Material		stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); ceramics; PTFE
Min. pressure cycles		100 million
Process connection		threaded connection Aseptoflex external thread Aseptoflex

Displays / operating elements

Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



PI3056



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Connection

