PI7057

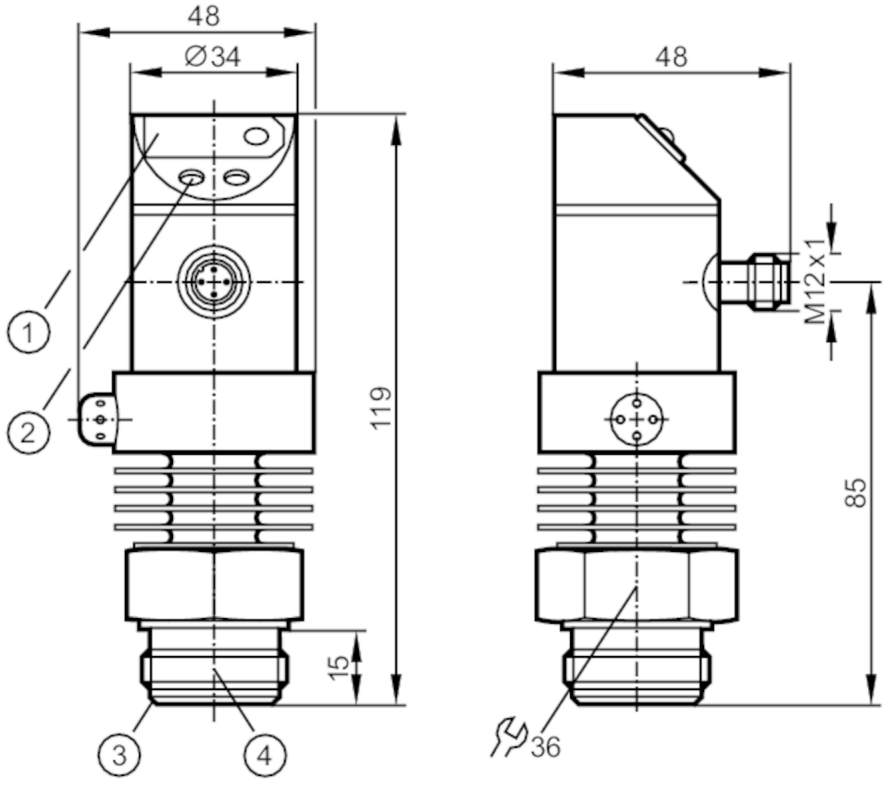
Flush pressure sensor with display

PI-001-RES30-QFPKG/US/.../V

Article no longer available - archive entry

Alternative articles: PI2057

When selecting an alternative article and accessories please note that technical data may differ!



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

CE

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Measuring range	[bar]	0...1
Process connection		threaded connection Aseptoflex external thread Aseptoflex
Application		
Special feature		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]	30
Pressure rating	[bar]	10
Type of pressure		relative pressure
No dead space		yes

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Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 60
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.2
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...1
Set point SP	[bar]	0.02...1
Reset point rP	[bar]	0.01...0.99
In steps of	[bar]	0.01
Accuracy / deviations		
Switch point accuracy	[% of the final value]	< ± 1,0
Repeatability	[% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)
Temperature drift per 10 K		< ± 0.3
Response times		
Switching frequency for a given set response time of one output		Response time (dAP) [ms]: 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; switch point (SPx) = 70 %; reset point (rPx) = 30 %
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50

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Software / programming			
Adjustment of the switch point		programming button	
Parameter setting options		hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-40...100	
Protection		IP 67	
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			
Materials		EPDM/X; FKM; PA; PBT; PC; PTFE; stainless steel (1.4404 / 316L)	
Materials (wetted parts)		FKM; ceramics; stainless steel (1.4404 / 316L)	
Min. pressure cycles		100 million	
Process connection		threaded connection Aseptoflex external thread Aseptoflex	
Displays / operating elements			
Display		switching status	2 x LED, red
		function display	7-segment LED display
		measured values	7-segment LED display
Remarks			
Pack quantity		1 pcs.	

Electrical connection

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



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Connection

