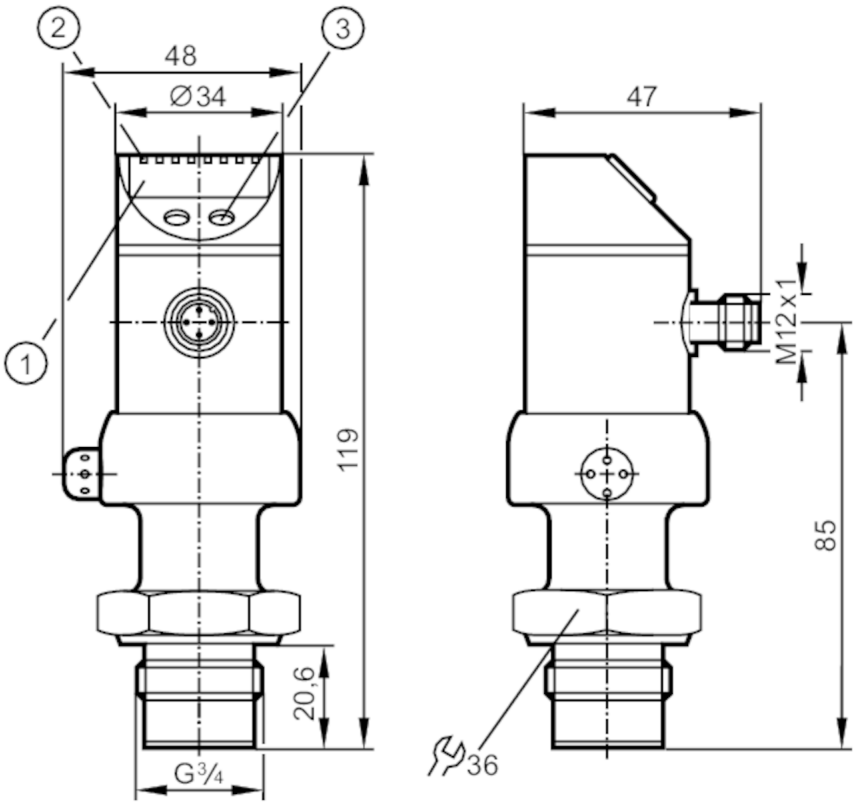
PI7993

Flush pressure sensor with display

PI-025-REB34-QFRKG/US/ /P

phase-out article

Alternative articles: PM1503 + E30482 or PI1703
When selecting an alternative article and accessories please note that technical data may differ!



1 alphanumeric display 4-digit
2 LEDs Display unit / switching status
3 programming button

Product characteristics				
Number of inputs and outputs	Number of digital outputs: 2			
Measuring range	-1...25 bar	-14.4...362.7 psi	-0.1...2.5 MPa	
Process connection	threaded connection G 3/4 external thread			

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. burst pressure	200 bar	2900 psi	20 MPa	
Pressure rating	100 bar	1450 psi	10 MPa	
Type of pressure	relative pressure; vacuum			
No dead space	yes			

PI7993

Flush pressure sensor with display

PI-025-REB34-QFRKG/US/ /P

Electrical data				
Operating voltage	[V]	18...32 DC		
Current consumption	[mA]	< 50		
Min. insulation resistance	[MΩ]	100; (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
Power-on delay time	[s]	0.5		
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/NPN		
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		
Switching frequency DC	[Hz]	85		
Short-circuit protection		yes		
Type of short-circuit protection		pulsed		
Overload protection		yes		
Measuring/setting range				
Measuring range		-1...25 bar	-14.4...362.7 psi	-0.1...2.5 MPa
Set point SP		-0.96...25 bar	-13.8...362.7 psi	-0.096...2.5 MPa
Reset point rP		-1...24.96 bar	-14.4...362.1 psi	-0.1...2.496 MPa
In steps of		0.02 bar	0.3 psi	0.002 MPa
Factory setting			SP1 = 6.24 bar	rP1 = 5.74 bar
			SP2 = 18.74 bar	rP2 = 18.30 bar
Accuracy / deviations				
Switch point accuracy	[% of the span]	< ± 0,2; (Turn down 1:1)		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[% of the span]	< ± 0,2; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)		
Linearity deviation	[% of the span]	< ± 0,15; (Turn down 1:1)		
Hysteresis deviation	[% of the span]	< ± 0,15; (Turn down 1:1)		
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)		
Temperature coefficient zero point		< ± 0,05; (0...70 °C)		

PI7993

Flush pressure sensor with display

PI-025-REB34-QFRKG/US/ /P

[% of the span / 10 K]			
Temperature coefficient span [% of the span / 10 K]		< ± 0,15; (0...70 °C)	
Response times			
Response time	[ms]	< 6	
Damping process value dAP	[s]	0...100	
Software / programming			
Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit; zero point; span	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-40...100	
Protection		IP 67; IP 69K	
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 61000-4-5 Surge	0,5/1 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)
MTTF	[years]	178	
Mechanical data			
Weight	[g]	377.5	
Housing		cylindrical	
Dimensions	[mm]	Ø 34 / L = 119	
Materials		stainless steel (316L/1.4404); PC; PBT; PEI; FKM; PTFE	
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (316L/1.4435) surface characteristics: Ra < 0,4 µm / Rz = 4 µm; PTFE	
Min. pressure cycles		100 million	
Process connection		threaded connection G 3/4 external thread	
Displays / operating elements			
Display		Display unit	4 x LED, green
		switching status	2 x LED, yellow
		measured values	alphanumeric display, 4-digit
		parameter setting	alphanumeric display, 4-digit
Display unit		bar; psi; MPa; % of the span	
Remarks			
Notes		phase-out article	
Pack quantity		1 pcs.	

PI7993

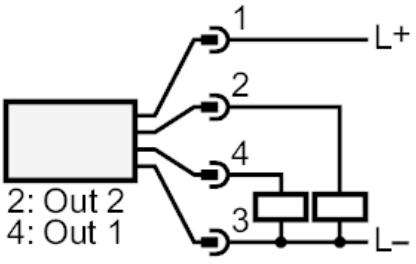
Flush pressure sensor with display

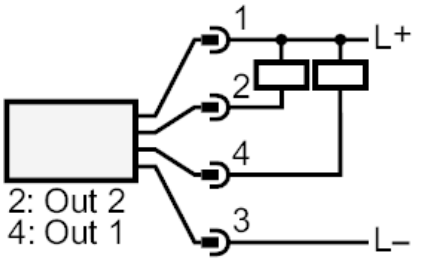
PI-025-REB34-QFRKG/US/ /P

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated







OUT1	switching output Diagnostic output
OUT2	switching output