PM2057

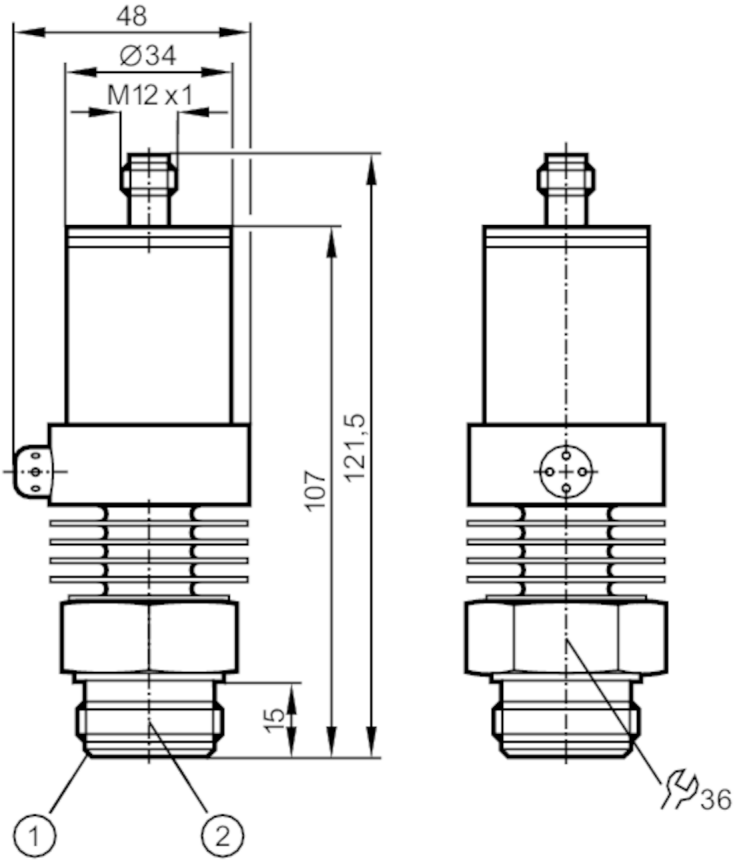
Flush pressure sensor

PM-001BRES30-E-ZVG/US/ /P

phase-out article

Alternative articles: PI1009 or PM1707
When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.
no more adapters available as accessories



1 Aseptoflex sealing edge
2 Aseptoflex thread

EC 1935/2004 FCM CN FCM JP Hygienic Cleanable

Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	-0.05...1 bar	-50...1000 mbar	-0.7...14.5 psi	-5...100 kPa
Process connection	threaded connection Aseptoflex external thread Aseptoflex			

Application				
Special feature	Gold-plated contacts			
Application	flush mountable for the food and beverage industry			
Media	viscous media and liquids with suspended particles; liquids and gases			
Medium temperature [°C]	-25...125; (145 max. 1h)			
Min. burst pressure	30000 mbar	450 psi	3000 kPa	
Pressure rating	10000 mbar	145 psi	1000 kPa	
Type of pressure	relative pressure			

PM2057

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No dead space		yes			
Electrical data					
Operating voltage	[V]	14...30 DC			
Min. insulation resistance	[MΩ]	100; (500 V DC)			
Protection class		III			
Reverse polarity protection		yes			
Inputs / outputs					
Number of inputs and outputs		Number of analogue outputs: 1			
Outputs					
Total number of outputs		1			
Output signal		analogue signal			
Number of analogue outputs		1			
Analogue current output	[mA]	4...20			
Max. load	[Ω]	550; (Ub = 24 V; (Ub - 13 V) / 20 mA)			
Overload protection		yes			
Measuring/setting range					
Measuring range		-0.05...1 bar	-50...1000 mbar	-0.7...14.5 psi	-5...100 kPa
Analogue start point		-50...749 mbar	-0.7...10.9 psi	-5...74.9 kPa	
Analogue end point		200...999 mbar	2.9...14.5 psi	20...99.9 kPa	
In steps of		1 mbar	0.1 psi	0.1 kPa	
Factory setting			ASP = 0 mbar	AEP = 999 mbar	
Accuracy / deviations					
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)			
Characteristics deviation	[% of the span]	< ± 0,6; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)			
Linearity deviation	[% of the span]	< ± 0,5; (Turn down 1:1)			
Hysteresis deviation	[% of the span]	< ± 0,1; (Turn down 1:1)			
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)			
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,1; (0...80 °C)			
Temperature coefficient span	[% of the span / 10 K]	< ± 0,2; (0...80 °C)			
Response times					
Max. response time analogue output	[ms]	3			
Software / programming					
Parameter setting options		zero point; span			
Interfaces					
Communication interface		EPS			
Operating conditions					
Ambient temperature	[°C]	-25...80			

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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	1 GHz / accuracy < 2,5%
		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)
MTTF	[years]	271	
Mechanical data			
Weight	[g]	471.5	
Housing		cylindrical	
Dimensions	[mm]	Ø 34 / L = 121.5	
Materials		stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (316L/1.4404) surface characteristics: Ra < 0,4 µm / Rz = 4 µm; PTFE	
Min. pressure cycles		100 million	
Process connection		threaded connection Aseptoflex external thread Aseptoflex	
Remarks			
Remarks		The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.	
Notes		Please do not use for new projects.; no more adapters available as accessories	
Pack quantity		1 pcs.	

Electrical connection

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



Connection

