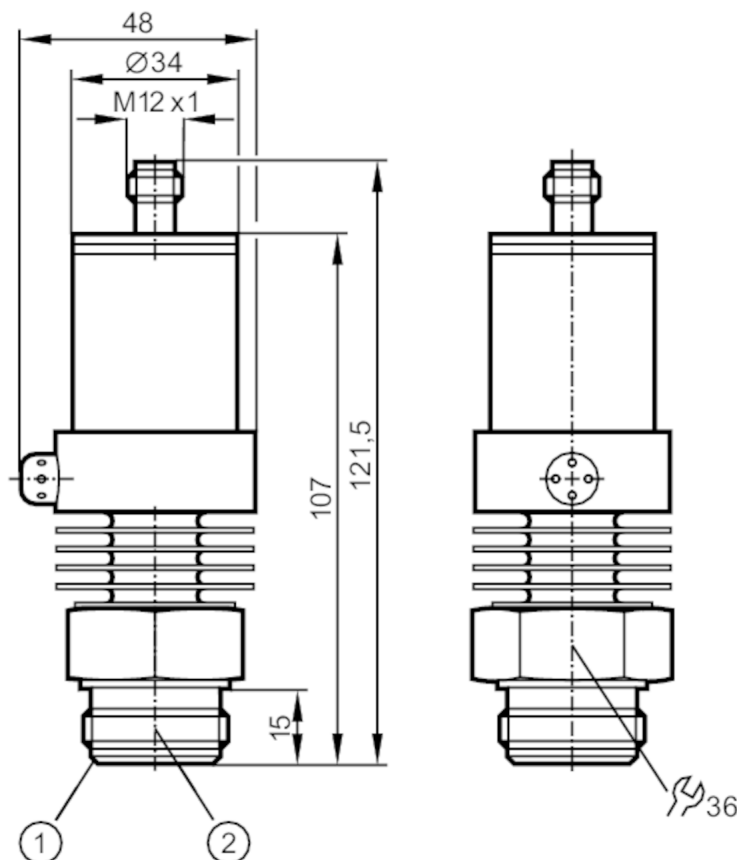


PM2057



Flush pressure transmitter

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



- 1 Aseptoflex sealing edge
2 Aseptoflex thread



EC 1935/2004 EHEDG Certified FCM FDA

Product characteristics

Output signal	analog signal			
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

System	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. bursting pressure	30000 mbar	450 psi	3000 kPa
Pressure rating	10000 mbar	145 psi	1000 kPa
Type of pressure	relative pressure		
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



Flush pressure transmitter

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Inputs / outputs					
Number of inputs and outputs		Number of analog outputs: 1			
Outputs					
Total number of outputs		1			
Output signal		analog signal			
Number of analog outputs		1			
Analog 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
Analog start point		-50...749 mbar	-0.7...10.9 psi		-5...74.9 kPa
Analog 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)			
Reaction times					
Max. response time analog output [ms]		3			
Software / programming					
Parameter setting options		Zero point; span			
Interfaces					
Communication interface		EPS			
Operating conditions					
Ambient temperature [°C]		-25...80			
Storage temperature [°C]		-40...100			
Protection		IP 67			

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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)
MTTF	[years]	271

Mechanical data		
Weight	[g]	471.5
Material	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	ceramics (99.9 % Al2O3); stainless steel (1.4404 / 316L); surface characteristics: Ra < 0,4 / Rz 4; 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.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

