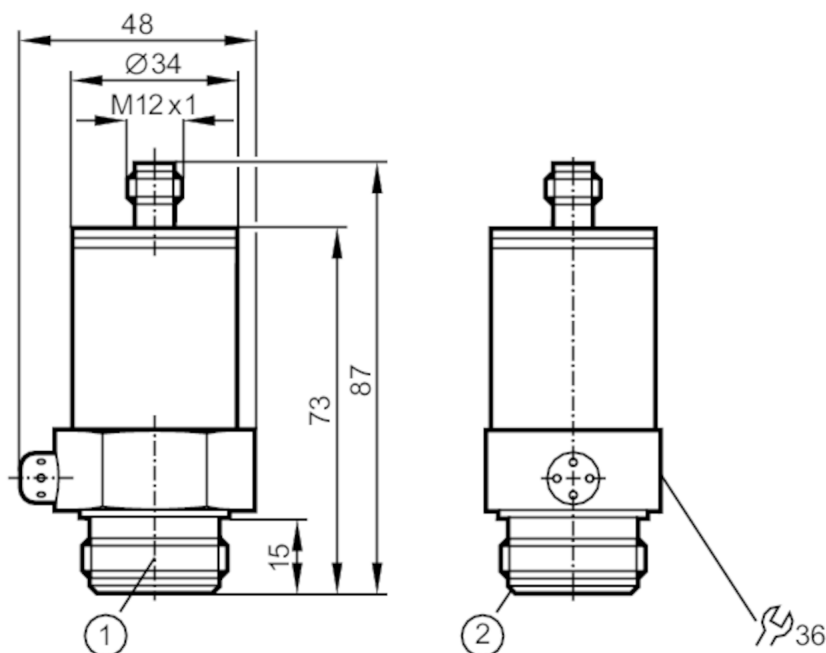




Flush pressure transmitter

PL-001BRES30-E-ZVG/US/ IP



- 1 Aseptoflex thread
2 Aseptoflex sealing edge



EC 1935/2004 EHEDG Certified FCM FDA

Product characteristics

Output signal	analogue 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

Special feature	Gold-plated contacts		
Application	food and beverage industry		
Media	viscous media and liquids with suspended particles; liquids and gases		
Medium temperature [°C]	-25...80		
Pressure rating	10000 mbar	145 psi	1000 kPa
Min. bursting pressure	30000 mbar	450 psi	3000 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		

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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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 16086)			
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			
Storage temperature [°C]	-40...100			
Protection	IP 67			

PL2057



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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]	320
Materials	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	ceramics (99.9 % Al2O3); PTFE; stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4	
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

