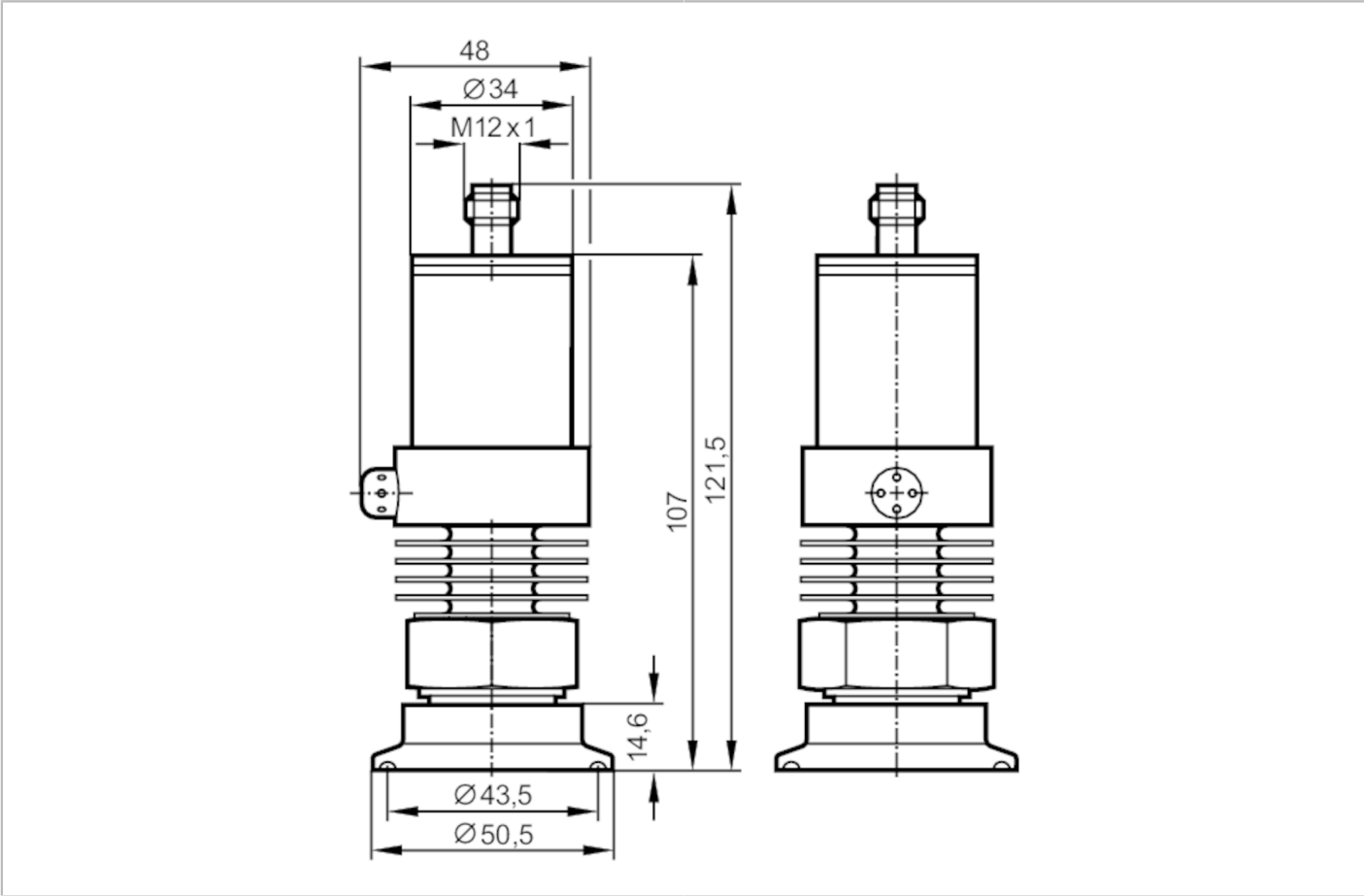




Flush pressure sensor

PH-001-RES30-A-ZVG/US/ IP

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CE EAC EHEDG Certified FCM FDA

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	Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)			
Application				
Application	flush mountable for the food and beverage industry			
Media	viscous media and liquids with suspended particles; liquids and gases			
Medium temperature	-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		



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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		
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)

Mechanical data

Weight	[g]	540
Materials	stainless steel (316L/1.4404); PEI; PBT	
Materials (wetted parts)	ceramics (99.9 % Al ₂ O ₃); stainless steel (316L/1.4435); surface characteristics: Ra < 0,4 / Rz 4; PTFE	
Min. pressure cycles	100 million	
Process connection	Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)	

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

