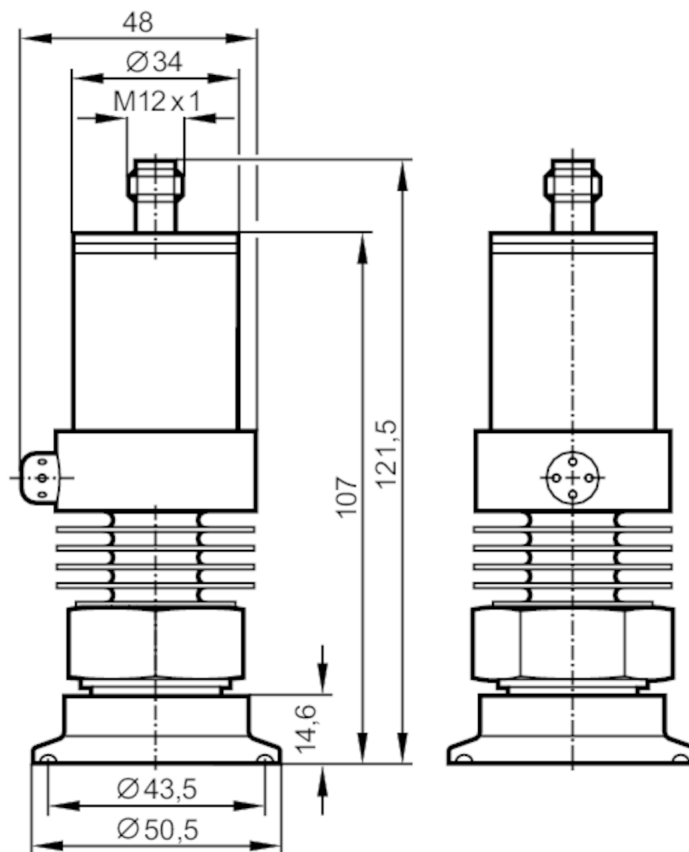


Flush pressure sensor

PH-2,5-RES30-E-ZVG/US/ /P

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CE ENEC EHEDG Certified FCM FDA

Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	-0.13...2.5 bar	-130...2500 mbar	-1.8...36.3 psi	-13...250 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 [°C]	-25...125; (145 max. 1h)		
Min. bursting pressure	50 bar	725 psi	5000 kPa
Pressure rating	20 bar	290 psi	2000 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		-0.13...2.5 bar	-130...2500 mbar	-1.8...36.3 psi -13...250 kPa
Analogue start point		-0.13...1.88 bar	-1.8...27.2 psi	-13...188 kPa
Analogue end point		0.5...2.5 bar	7.3...36.3 psi	50...250 kPa
In steps of		0.01 bar	0.1 psi	1 kPa
Factory setting		ASP		0.0 bar
		AEP		2.50 bar
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		

PH0156



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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]	542
Materials	stainless steel (316L/1.4404); PEI; PBT
Materials (wetted parts)	ceramics (99.9 % Al2O3); 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.

Electrical connection

Connector: 1 x M12; coding: A



Connection

