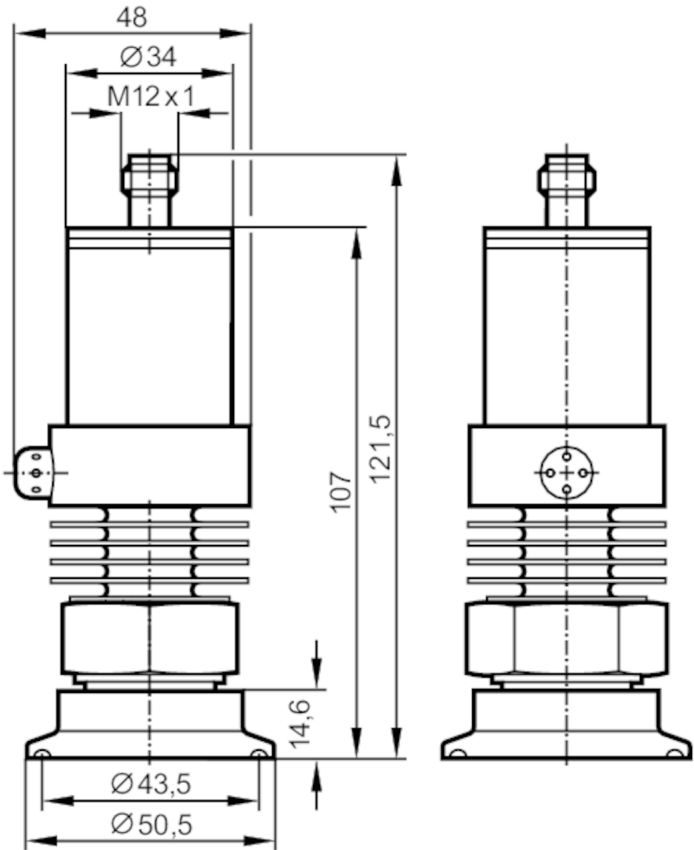


PH0156



Flush pressure sensor

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



Application			
Application	hygienic systems		
Media	viscous media and liquids with suspended particles; liquids and gases		
Medium temperature [°C]	-25...125; (145 max. 1h)		
Pressure rating	20 bar	290 psi	2000 kPa
Min. bursting pressure	50 bar	725 psi	5000 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		



Flush pressure sensor

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

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	-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 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		
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)	

PH0156



Flush pressure sensor

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

Mechanical data		
Weight	[g]	515
Materials	stainless steel (1.4404 / 316L); PEI; PBT	
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	Clamp 1-1,5" ISO 2852	

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



Connection

