

PM2055



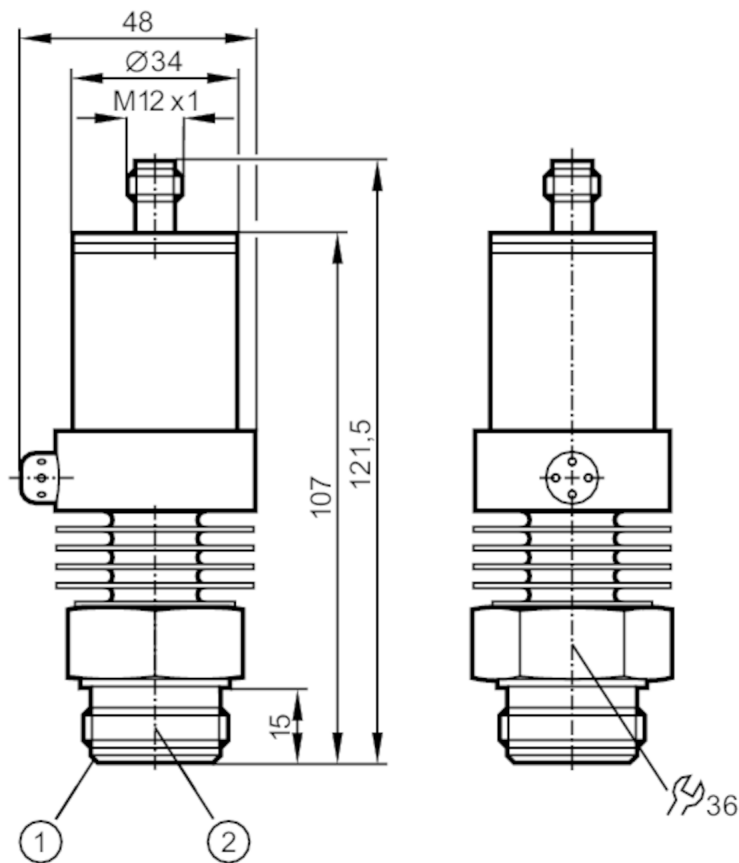
Flush pressure transmitter

PM-004-RES30-E-ZVG/US/ /P

phase-out article
Discontinuation date: 03/31/2024

Alternative articles: PI1005 or PM1705
When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.
no more adapters available as accessories



- 1 Aseptoflex sealing edge
- 2 Aseptoflex thread



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	-0.99...4 bar	-14.4...58 psi	-99...400 kPa
Process connection	threaded connection Aseptoflex external thread Aseptoflex		

Application

Special feature	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	100 bar	1450 psi	10000 kPa
Pressure rating	30 bar	435 psi	3000 kPa



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Type of pressure	relative pressure		
No dead space	yes		
Electrical data			
Operating voltage [V]	14...30 DC; ("supply class 2" to cULus)		
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		
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	-0.99...4 bar	-14.4...58 psi	-99...400 kPa
Analogue start point	-0.99...1 bar	-14.4...14.5 psi	-99...100 kPa
Analogue end point	0.26...4 bar	3.7...58 psi	26...400 kPa
In steps of	0.01 bar	0.1 psi	1 kPa
Factory setting		ASP = 0.00 bar	AEP = 4.00 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		

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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	1 GHz / accuracy < 2,5%
	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]	269

Mechanical data		
Weight	[g]	473
Materials		stainless steel (316L/1.4404); PEI; FKM
Materials (wetted parts)		ceramics (99.9 % Al ₂ O ₃); stainless steel (316L/1.4404); 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.
Notes	Please do not use for new projects.; no more adapters available as accessories
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

