PM2054

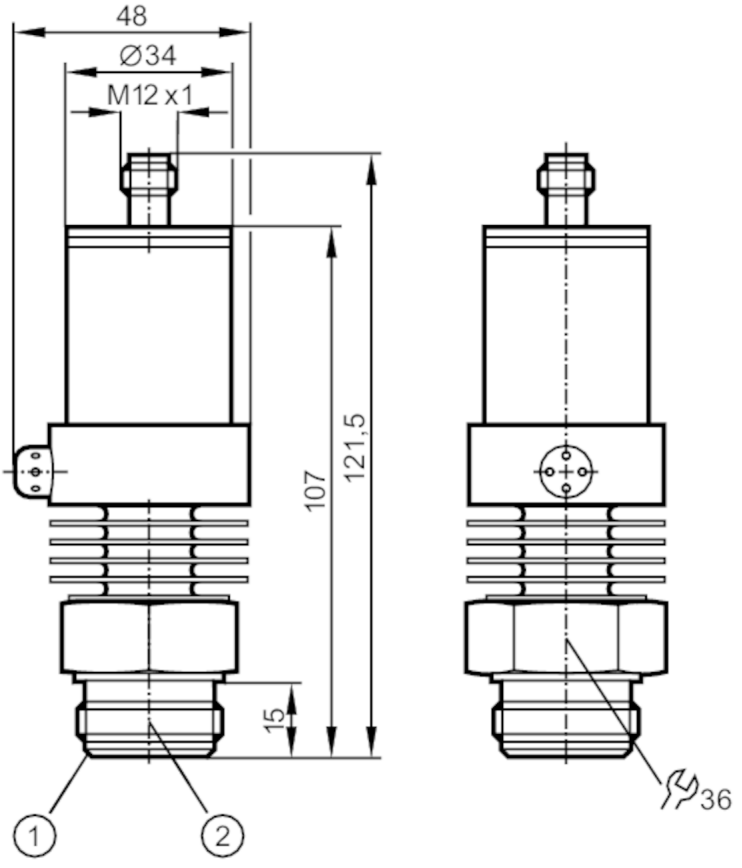
Flush pressure transmitter

PM-010-RES30-E-ZVG/US/ /P

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

Alternative articles: PI1004 or PM1704
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

EC 1935/2004 EHEDG Tested FCM

Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	-0.5...10 bar	-7...145 psi	-50...1000 kPa	-0.05...1 MPa
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	150 bar	2175 psi	15000 kPa	
Pressure rating	50 bar	725 psi	5000 kPa	

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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			
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	-0.5...10 bar	-7...145 psi	-50...1000 kPa	-0.05...1 MPa
Analogue start point	-0.5...7.49 bar	-7...109 psi	-50...749 kPa	
Analogue end point	2...9.99 bar	29...145 psi	200...999 kPa	
In steps of	0.01 bar	1 psi	1 kPa	
Factory setting		ASP = 0.00 bar	AEP = 9.99 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]	271	

Mechanical data		
Weight	[g]	474.5
Materials		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (1.4404 / 316L); 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

