

PM2054



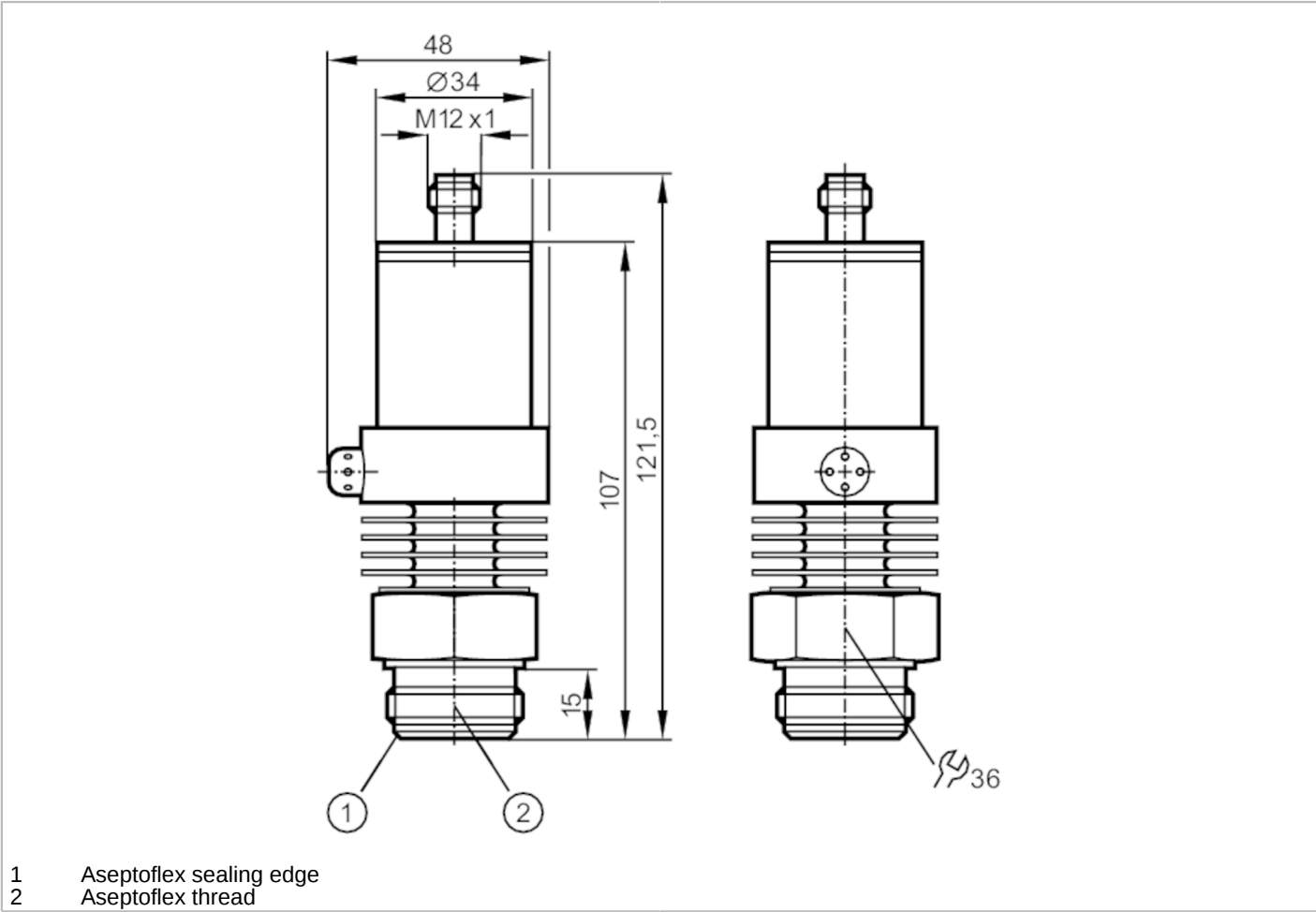
Flush pressure transmitter

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



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	[X21]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[X21]	< ± 0,6; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)		
Linearity deviation	[X21]	< ± 0,5; (Turn down 1:1)		
Hysteresis deviation	[X21]	< ± 0,1; (Turn down 1:1)		
Long-term stability	[X21]	< ± 0,1; (Turn down 1:1; per year)		
Temperature coefficient zero point	[X22]	< ± 0,1; (0...80 °C)		
Temperature coefficient span	[X22]	< ± 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	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	[ANN]	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

