

PL2057



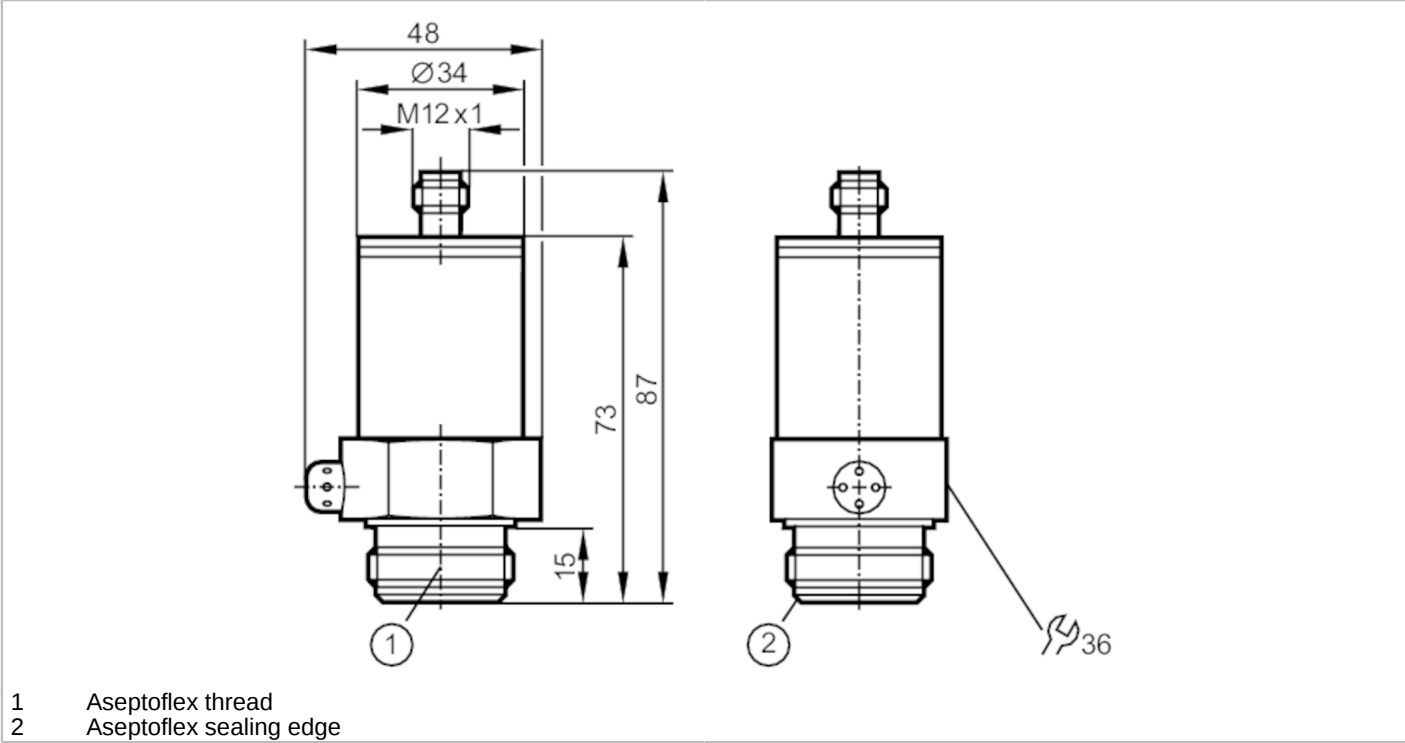
Flush pressure transmitter

PL-001BRES30-E-ZVG/US/ IP

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

Alternative articles: PI1009 or PM1707
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	-0.05...1 bar	-50...1000 mbar	-0.7...14.5 psi	-5...100 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...80			
Min. bursting pressure	30000 mbar	450 psi	3000 kPa	
Pressure rating	10000 mbar	145 psi	1000 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)			



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Protection class	III
Reverse polarity protection	yes
Measuring principle	hydrostatic

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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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; (U _b = 24 V; (U _b - 13 V) / 20 mA)
Overload protection	yes

Measuring/setting range

Measuring range	-0.05...1 bar	-50...1000 mbar	-0.7...14.5 psi	-5...100 kPa
Analogue start point	-50...749 mbar	-0.7...10.9 psi	-5...74.9 kPa	
Analogue end point	200...999 mbar	2.9...14.5 psi	20...99.9 kPa	
In steps of	1 mbar	0.1 psi	0.1 kPa	
Factory setting		ASP = 0 mbar	AEP = 999 mbar	

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
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Software / programming

Parameter setting options	zero point; span
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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)

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Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF	[ANN]	271

Mechanical data

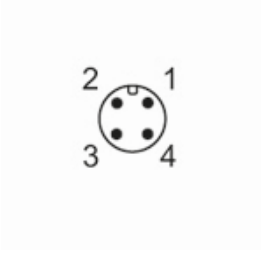
Weight	[g]	320
Materials	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	ceramics (99.9 % Al2O3); stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE	
Min. pressure cycles	100 million	
Process connection	threaded connection Aseptoflex external thread Aseptoflex	

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

