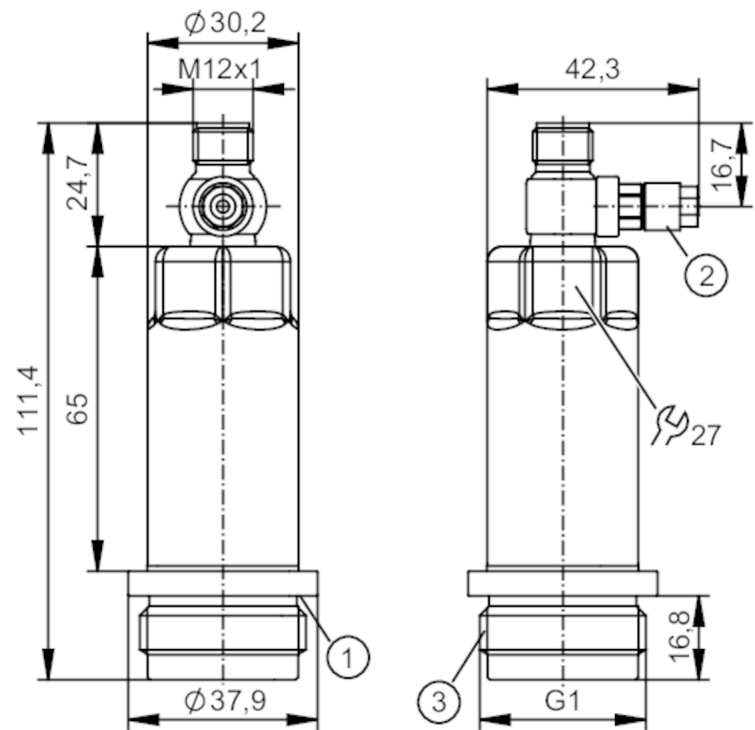


PY1708



Flush pressure transmitter

PM-,25BREA01-E-ZVG/US



- 1 groove with sealing ring (DIN EN ISO 1179-2)
- 2 fitting for tube $\varnothing 6 \times 4$
- 3 external thread G1



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	-0.0125...0.25 bar	-12.5...250 mbar	-0.182...3.626 psi	-1.25...25 kPa
Process connection	threaded connection G 1 external thread			

Application

Special feature	Gold-plated contacts		
Measuring element	ceramic-capacitive pressure measuring cell		
Application	flush mountable for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Min. bursting pressure	30000 mbar	435 psi	3000 kPa
Pressure rating	6000 mbar	87 psi	600 kPa
Vacuum resistance [mbar]	-1000		
Vacuum resistance [MPa]	-0.1		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	18...30 DC
Min. insulation resistance [M Ω]	100; (500 V DC)
Protection class	III



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Reverse polarity protection		yes			
Measuring principle		hydrostatic			
Integrated watchdog		yes			
2-wire					
Current consumption	[mA]	3.5...21.5			
Power-on delay time	[s]	1			
3-wire					
Current consumption	[mA]	< 45			
Power-on delay time	[s]	0.5			
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; (scalable)			
Max. load	[Ω]	700; (Ub = 24 V; (Ub - 9 V) / 21.5 mA)			
Short-circuit proof		yes			
Overload protection		yes			
Measuring/setting range					
Measuring range		-0.0125...0.25 bar	-12.5...250 mbar	-0.182...3.626 psi	-1.25...25 kPa
Analogue start point		-12.5...200 mbar	-0.182...2.9 psi		-1.25...20 kPa
Analogue end point		37.5...250 mbar	0.544...3.626 psi		3.75...25 kPa
In steps of		0.5 mbar	0.007 psi		0.05 kPa
Factory setting		ASP = 0.0 mbar	AEP = 250 mbar		
Accuracy / deviations					
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)			
Characteristics deviation	[% of the span]	< ± 0,6; (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...70 °C)			
Temperature coefficient span	[% of the span / 10 K]	< ± 0,4; (0...70 °C)			
Response times					
Damping for the analogue output dAA	[s]	0...4			

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2-wire

Step response time analogue output	[ms]	30
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3-wire

Step response time analogue output	[ms]	7
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Operating conditions

Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 68; IP 69K

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	323

Mechanical data

Weight	[g]	279.4
Housing		cylindrical
Dimensions	[mm]	Ø 30.2 / L = 111.4
Materials		stainless steel (316L/1.4404); PBT; FKM; PTFE; nickel-plated brass
Materials (wetted parts)		ceramics (96 % Al ₂ O ₃); FKM; stainless steel (316L/1.4404)
Min. pressure cycles		100 million
Tightening torque	[Nm]	35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1 external thread

Remarks

Pack quantity	1 pcs.
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Electrical connection

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

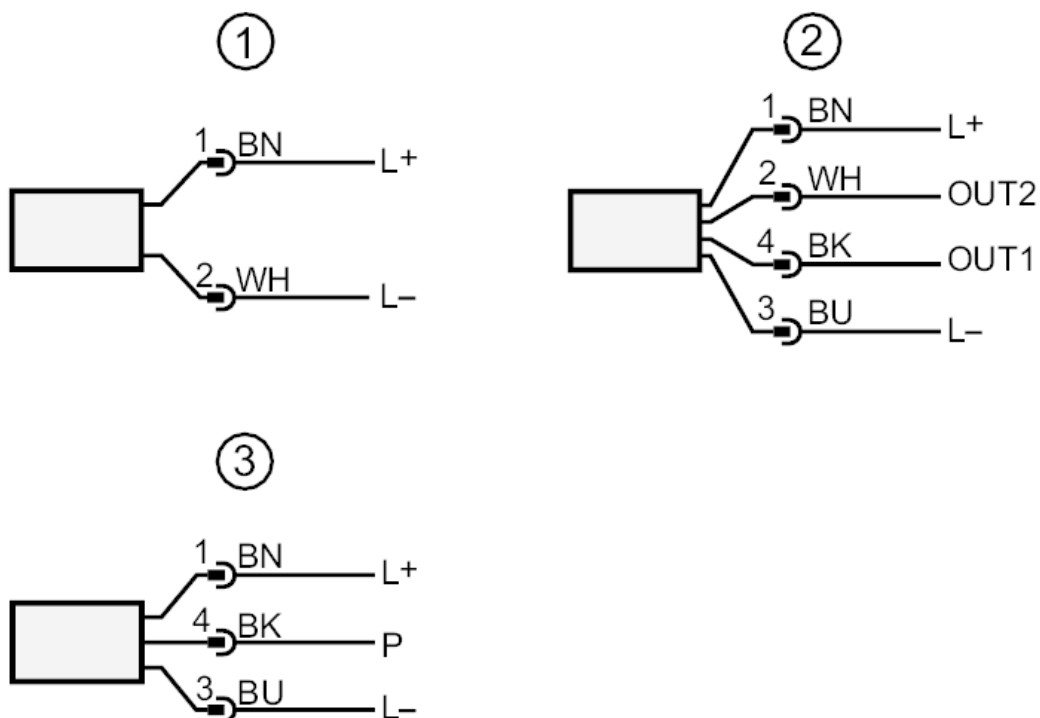




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Connection



- colours to DIN EN 60947-5-2
- 1 connection for 2-wire operation
- 2 connection for 3-wire operation
- 3 connection for IO-Link parameter setting (P = communication via IO-Link)
- Core colours :
- BK = black
- BN = brown
- BU = blue
- WH = white