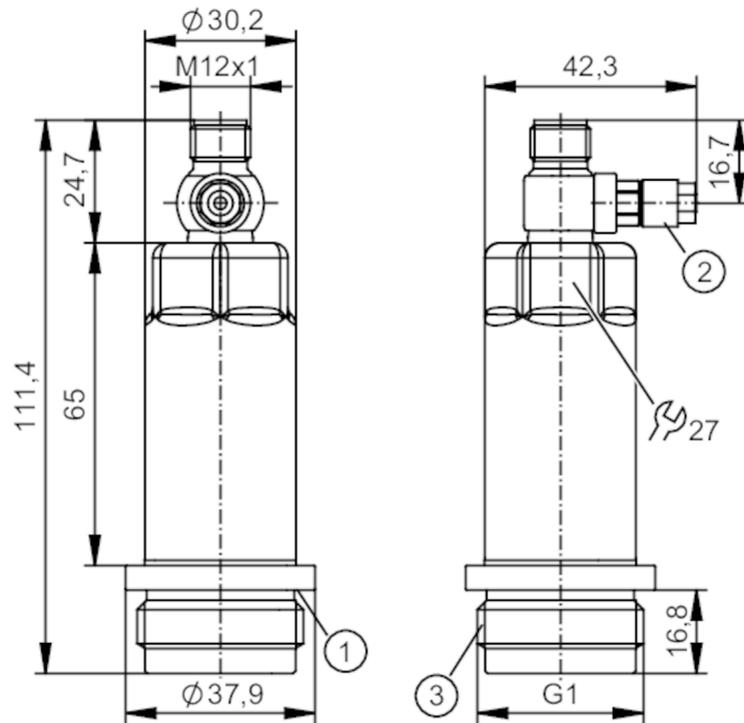


PY1708



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		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	18...30 DC		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		

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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; ($U_b = 24\text{ V}$; ($U_b - 9\text{ V}$) / 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]	< $\pm 0,1$; (with temperature fluctuations < 10 K; Turn down 1:1)			
Characteristics deviation [% of the span]	< $\pm 0,6$; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)			
Linearity deviation [% of the span]	< $\pm 0,5$; (Turn down 1:1)			
Hysteresis deviation [% of the span]	< $\pm 0,1$; (Turn down 1:1)			
Long-term stability [% of the span]	< $\pm 0,1$; (Turn down 1:1; per year)			
Temperature coefficient zero point [% of the span / 10 K]	< $\pm 0,1$; (0...70 °C)			
Temperature coefficient span [% of the span / 10 K]	< $\pm 0,4$; (0...70 °C)			
Response times				
Damping for the analogue output dAA [s]	0...4			
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
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



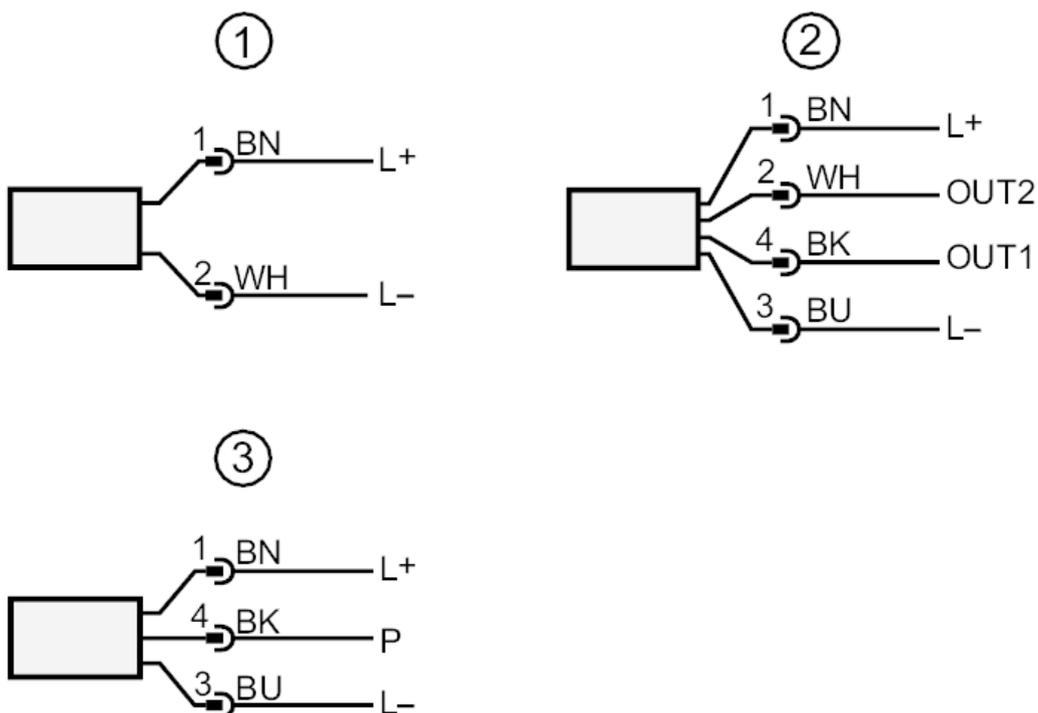
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Connection



- 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