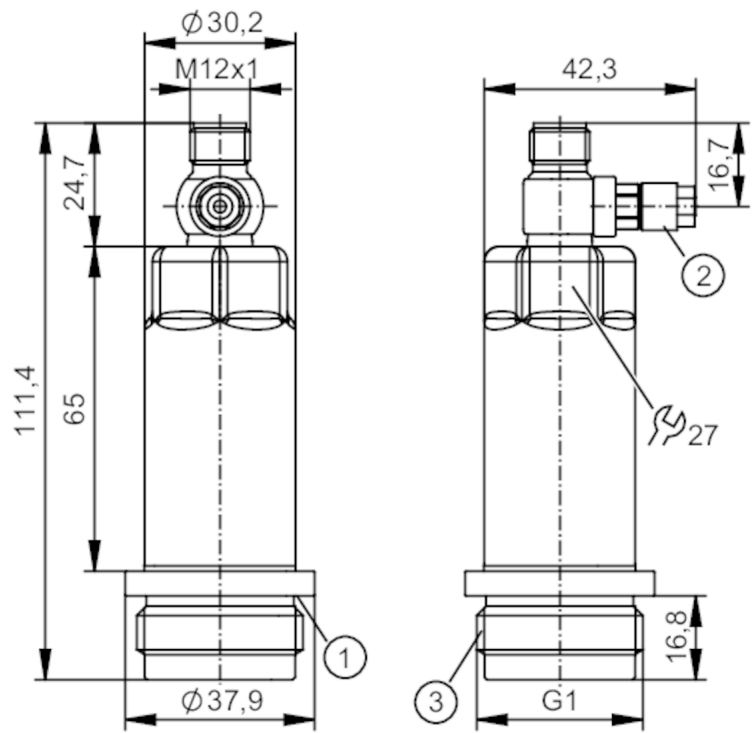


PY1708



Flush pressure transmitter

PM-,25BREA01-E-ZVG/US



- 1 groove with sealing ring (DIN EN ISO 1179-2)
- 2 fitting for tube Ø 6 x 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	-1000 mbar		-0.1 MPa	
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; (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			
2-wire					
Step response time analogue output	[ms]	30			

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3-wire

Step response time analogue output [ms]

7

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 % Al₂O₃); 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.

Electrical connection

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

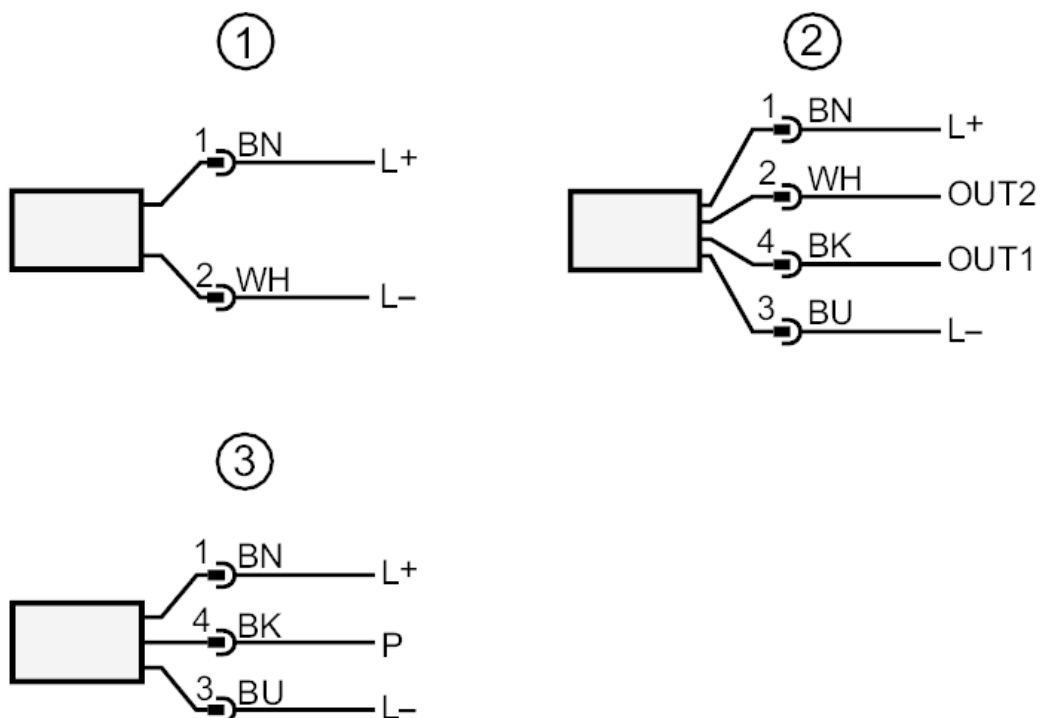




Flush pressure transmitter

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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