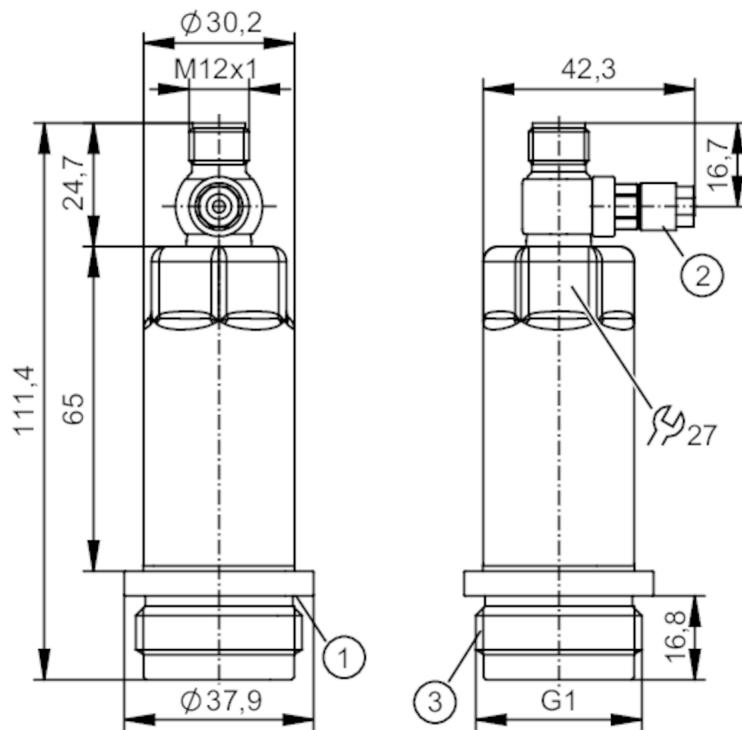


## Flush pressure transmitter

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
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	
<b>Inputs / outputs</b>			
Number of inputs and outputs	Number of analogue outputs: 1		
<b>Outputs</b>			
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	
<b>Measuring/setting range</b>			
Measuring range	-0.0125...0.25 bar	-12.5...250 mbar	-0.182...3.626 psi
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	
<b>Accuracy / deviations</b>			
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)		
<b>Response times</b>			
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 [ms]  
output

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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<sub>2</sub>O<sub>3</sub>); 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

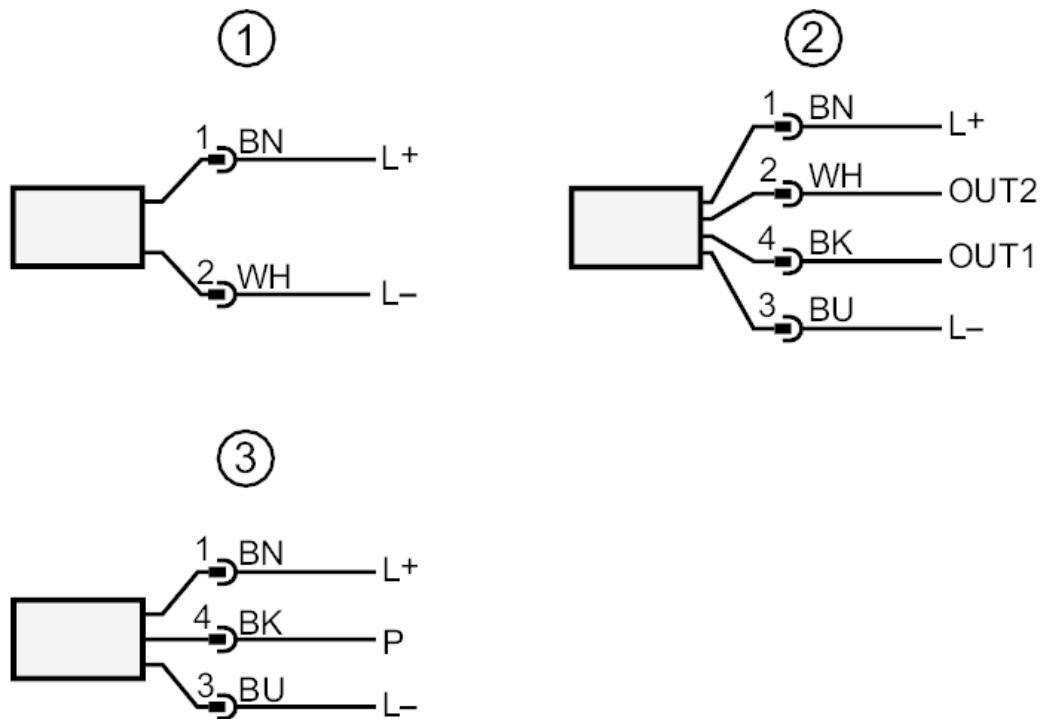
Connector: 1 x M12; coding: A; Contacts: gold-plated



## 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