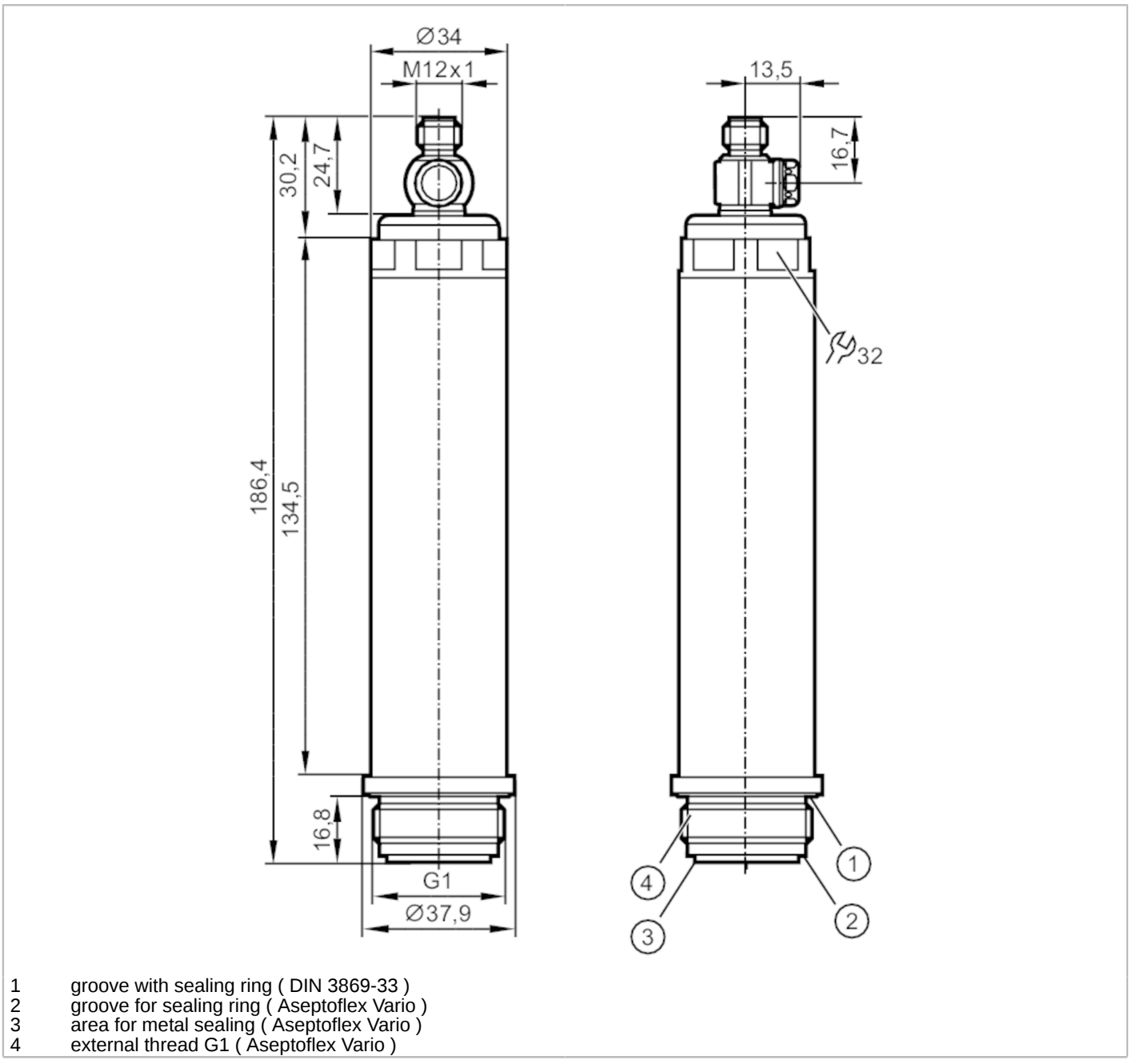
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Flush pressure transmitter

PM-2,5-REA01-E-ZVG/US



1 groove with sealing ring (DIN 3869-33)
2 groove for sealing ring (Aseptoflex Vario)
3 area for metal sealing (Aseptoflex Vario)
4 external thread G1 (Aseptoflex Vario)

EC 1935/2004 IO-Link

Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	-125...2500 mbar	-1.82...36.26 psi	-12.5...250 kPa
Process connection	threaded connection G 1 external thread Aseptoflex Vario		

Application		
Special feature	Gold-plated contacts	
Measuring element	ceramic-capacitive pressure measuring cell	
Application	flush mountable for the food and beverage industry	
Media	viscous media and liquids with suspended particles; liquids and gases	
Medium temperature [°C]	-25...85; (125: < 1 h)	

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Min. bursting pressure		50000 mbar	725 psi	5000 kPa
Pressure rating		20000 mbar	290 psi	2000 kPa
Vacuum resistance	[mbar]	-1000		
Type of pressure		relative pressure		
No dead space		yes		
MAWP (for applications according to CRN)	[bar]	20		
Electrical data				
Operating voltage	[V]	18...30 DC		
Min. insulation resistance	[MΩ]	100; (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
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; (configurable)		
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		-125...2500 mbar	-1.82...36.26 psi	-12.5...250 kPa
Analogue start point		-125...2000 mbar	-1.82...29 psi	-12.5...200 kPa
Analogue end point		375...2500 mbar	5.44...36.26 psi	-37.5...250 kPa
In steps of		1 mbar	0.02 psi	0.1 kPa
Factory setting		ASP = 0.0 mbar	AEP = 2500 mbar	
Accuracy / deviations				
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[% of the span]	< ± 0,2; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)		
Linearity deviation	[% of the span]	< ± 0,15; (Turn down 1:1)		
Hysteresis deviation	[% of the span]	< ± 0,15; (Turn down 1:1)		
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)		

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Temperature coefficient zero point [% of the span / 10 K]	< ± 0,05; (0...70 °C)		
Temperature coefficient span [% of the span / 10 K]	< ± 0,15; (0...70 °C)		
Response times			
Damping for the analogue output dAA [s]	0...4		
2-wire			
Step response time analogue output [ms]	30		
3-wire			
Step response time analogue output [ms]	7		
Interfaces			
Communication interface	IO-Link		
Transmission type	COM2 (38,4 kBaud)		
IO-Link revision	1.1		
Profiles	Digital Measuring Sensor (0x000A), Identification and Diagnosis (0x4000)		
SIO mode	no		
Required master port type	A		
Process data analogue	3		
Min. process cycle time [ms]	3.2		
Supported DeviceIDs	**Type of operation**	**DeviceID**	
	default	1111	
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		
UL approval	UL Approval no.	J025	
Mechanical data			
Weight [g]	554.7		
Materials	stainless steel (1.4404 / 316L); stainless steel (1.4301 / 304); PBT		
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		
Tightening torque [Nm]	35		
Process connection	threaded connection G 1 external thread Aseptoflex Vario		
Remarks			
Pack quantity	1 pcs.		

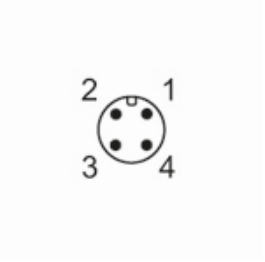
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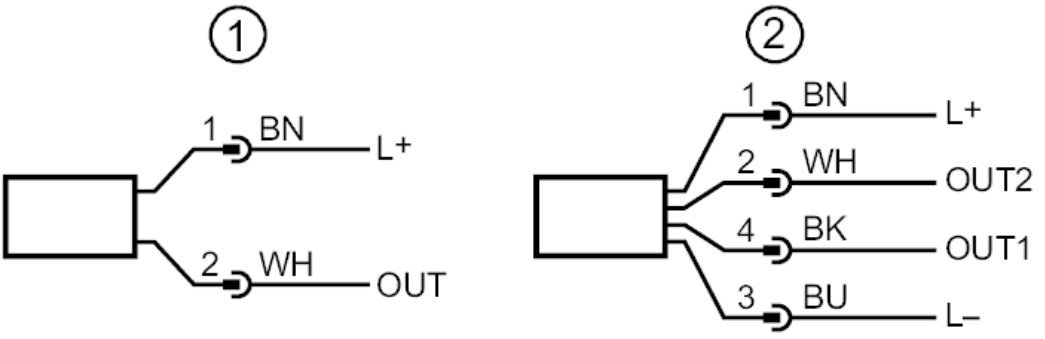
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Electrical connection

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



Connection



1	connection for 2-wire operation (analogue)
2	connection for 3-wire operation (analogue / IO-Link) OUT1 : IO-Link OUT2 : analogue output