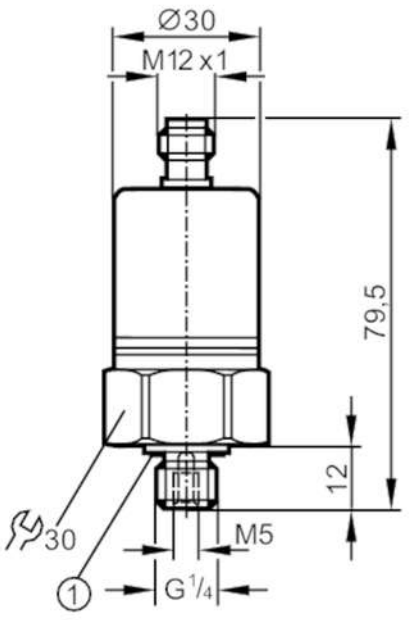
PA3589

Pressure transmitter with ceramic measuring cell

PA-,10BRBG14-A-ZVG/US/ /V



1 Sealing

Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...0.1 bar	0...100 mbar	0...40.16 inH2O	0...10 kPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5			
Application				
Special feature	Gold-plated contacts			
Application	for industrial applications			
Media	liquids and gases			
Medium temperature [°C]	-25...90; (on request: -40...90 °C)			
Min. bursting pressure	30000 mbar	12030 inH2O	3000 kPa	
Pressure rating	4000 mbar	1606 inH2O	400 kPa	
Type of pressure	relative pressure			
Electrical data				
Operating voltage [V]	9.6...32 DC			
Min. insulation resistance [MΩ]	100; (500 V DC)			
Protection class	III			
Reverse polarity protection	yes			
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			

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Max. load	[Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)			
Overload protection		yes			
Measuring/setting range					
Measuring range		0...0.1 bar	0...100 mbar	0...40.16 inH2O	0...10 kPa
Accuracy / deviations					
Repeatability	[% of the span]	< 0,2; (with temperature fluctuations < 10 K)			
Characteristics deviation	[% of the span]	< ± 0,5 (BFSL) / < ± 1 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)			
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)			
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,5; (0...80 °C)			
Temperature coefficient span	[% of the span / 10 K]	< ± 0,5; (0...80 °C)			
Response times					
Step response time analogue output	[ms]	3			
Operating conditions					
Ambient temperature	[°C]	-25...80			
Storage temperature	[°C]	-40...100			
Protection		IP 68; (7 days / 1 m water depth / 0.1 bar)			
Tests / approvals					
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD		
		EN 61000-4-3 HF radiated	30 V/m		
		EN 61000-4-4 Burst	2 kV		
		EN 61000-4-6 HF conducted	10 V		
		radiation of interference	according to the automotive directive 2004/104/EC		
		CISPR 25			
		immunity	according to the automotive directive 2004/104/EC		
		ISO 11452-2 HF radiated	100 V/m		
		ISO 7637-2 pulse	severity level 4		
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)		
		DIN EN 61373	category 3		
Vibration resistance		DIN EN 60068-2-6	20 g (10...2000 Hz)		
		DIN EN 61373	category 2		
MTTF	[years]	555			
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Railway applications		DIN EN 50155 / IEC 60571	Klasse T3, C1, S1		
Mechanical data					
Weight	[g]	215.5			
Housing		cylindrical			
Dimensions	[mm]	Ø 30 / L = 79.5			
Materials		stainless steel (316L/1.4404); FKM; PA; EPDM/X			
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; Sealing: FKM			

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Min. pressure cycles		100 million
Tightening torque	[Nm]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5
Restrictor element integrated		no (can be retrofitted)

Remarks

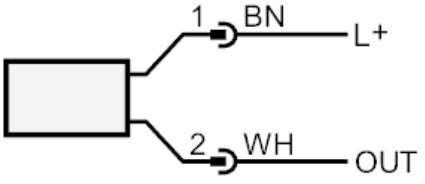
Pack quantity		1 pcs.

Electrical connection

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



Connection



OUT	analogue output
	colours to DIN EN 60947-5-2
	Core colours :
BN =	brown
WH =	white