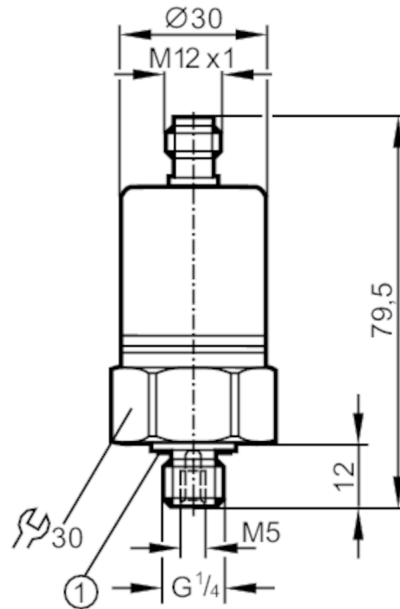


# PA3520



## Pressure transmitter with ceramic measuring cell

PA-400-SBG14-A-ZVG/US/ IV



1 sealing



### Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...400 bar	0...5800 psi	0...40 MPa
Process connection	threaded connection G 1/4 external thread Internal thread :M5		

### Application

Special feature	gold-plated contacts		
Media	liquids and gases		
Conditionally suitable for	use in gases at pressures > 25 bar only on request		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. burst pressure	1000 bar	14500 psi	100 MPa
Pressure rating	600 bar	8700 psi	60 MPa
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 analog outputs: 1		
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### Outputs

Total number of outputs	1		
Output signal	analog signal		
Number of analog outputs	1		
Analog current output [mA]	4...20		

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Max. load	[Ω]	720; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 9,6 V) / 20 mA)		
Overload protection		yes		
<b>Measuring/setting range</b>				
Measuring range		0...400 bar	0...5800 psi	0...40 MPa
<b>Accuracy / deviations</b>				
Repeatability	[% of the span]	< 0,1; (with temperature fluctuations < 10 K)		
Characteristics deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Long-term stability	[% of the span]	< ± 0,05; (per 6 months)		
Temperature coefficient zero point	[% of the span / 10 K]	0,1; (0...80 °C)		
Temperature coefficient span	[% of the span / 10 K]	0,2; (0...80 °C)		
<b>Reaction times</b>				
Step response time analog output	[ms]	3		
<b>Operating conditions</b>				
Ambient temperature	[°C]	-25...80		
Storage temperature	[°C]	-40...100		
Protection		IP 68; IP 69K		
<b>Tests / approvals</b>				
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		
	noise immunity	according to the automotive directive 2004/104/EC / ISO 11452-2		
	HF radiated	100 V/m		
	pulse resistance	ISO 7637-2 / severity level 3		
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)		
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)		
MTTF	[years]	555		
UL approval	File number UL	E174189		
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			
<b>Mechanical data</b>				
Weight	[g]	203.1		
Housing		tubular		
Dimensions	[mm]	Ø 30 / L = 79.5		
Material		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X		
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM		
Min. pressure cycles		100 million		

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Process connection	threaded connection G 1/4 external thread Internal thread :M5
Restrictor element integrated	yes

### Remarks

Pack quantity	1 pcs.
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### Electrical connection

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



### Connection

