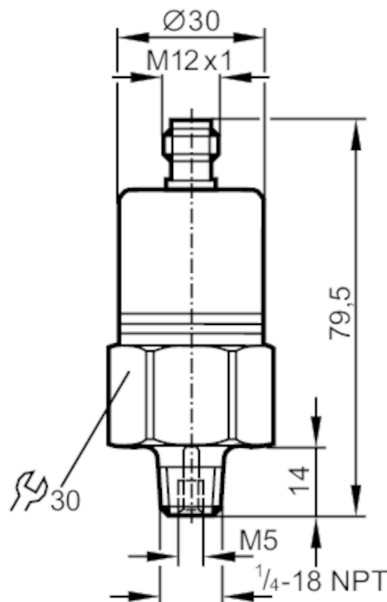


PX3111



Pressure transmitter with ceramic measuring cell

PA-300PSBN14-A-ZVG/US/ IV



Application

Media	liquids and gases
Conditionally suitable for	use in gases at pressures > 25 bar only on request
Medium temperature [°C]	-25...90
Pressure rating [psi]	5800
Min. bursting pressure [psi]	12300
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

Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue current output [mA]	4...20
Max. load [Ω]	720; (U _b = 24 V; (U _b - 9,6 V) / 20 mA)
Overload protection	yes

Measuring/setting range

Measuring range [psi]	0...3000
-----------------------	----------

Accuracy / deviations

Repeatability [% of the span]	< 0,15; (with temperature fluctuations < 10 K)
Characteristics deviation	< ± 0,35 (BFSL) / < ± 0,75 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)

PX3111



Pressure transmitter with ceramic measuring cell

PA-300PSBN14-A-ZVG/US/ IV

	[% of the span]	
Long-term stability		$< \pm 0,05$; (per 6 months)
	[% of the span]	
Temperature coefficient zero point		0,2; (0...80 °C)
	[% of the span / 10 K]	
Temperature coefficient span		0,3; (0...80 °C)
	[% of the span / 10 K]	

Response times

Step response time analogue output	[ms]	3
------------------------------------	------	---

Operating conditions

Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 68; IP 69K

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
	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)

Mechanical data

Weight	[g]	212.8
Materials		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection 1/4 NPT external thread internal threadM5

Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



PX3111



Pressure transmitter with ceramic measuring cell

PA-300PSBN14-A-ZVG/US/ IV

Connection

