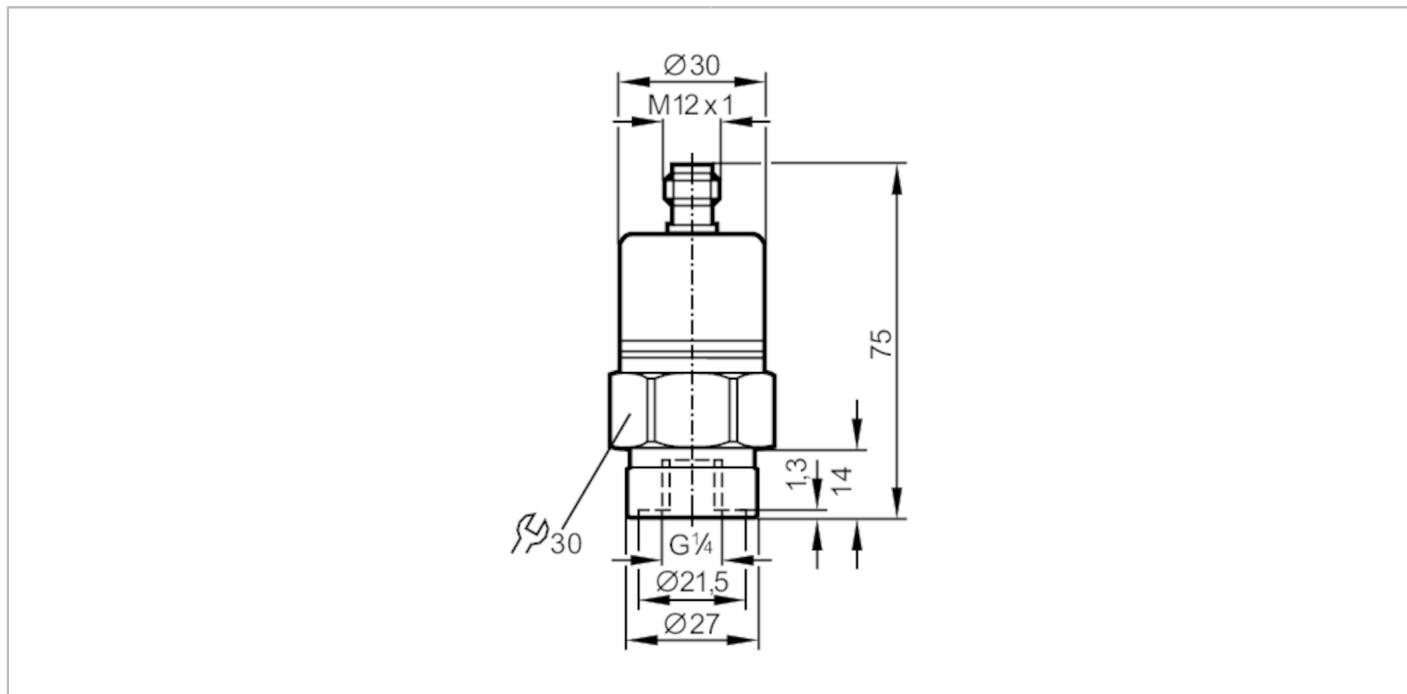


## Pressure transmitter with ceramic measuring cell

PA-025-RBR14-A-ZVG/US/ IV



## Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	→ 0...25 bar	0...363 psi	0...2.5 MPa
Process connection	threaded connection G 1/4 Internal thread		

## Application

System	gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. bursting pressure	350 bar	5075 psi	35 MPa
Pressure rating	150 bar	2175 psi	15 Mpa
Type of pressure	relative pressure		

## Electrical data

Operating voltage [V]	9.6...32 DC		
Min. insulation resistance [ $M\Omega$ ]	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
Max. load [Ω]		720; ( $U_b = 24 \text{ V}$ ; $(U_b - 9,6 \text{ V}) / 20 \text{ mA}$ )
Overload protection		yes
Measuring/setting range		
Measuring range	0...25 bar	0...363 psi
		0...2.5 MPa
Accuracy / deviations		
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)
Reaction times		
Step response time analog output [ms]		3
Operating conditions		
Ambient temperature [°C]		-25...80
Storage temperature [°C]		-40...100
Protection		IP 65
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
Shock resistance	ISO 11452-2 HF radiated	100 V/m
	ISO 7637-2 pulse	severity level 4
	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]		506
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

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## Mechanical data

Weight	[g]	223
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
Process connection		threaded connection G 1/4 Internal thread
Restrictor element integrated		no (can be retrofitted)

## Remarks

Pack quantity	1 pcs.
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## Electrical connection

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



## Connection

