

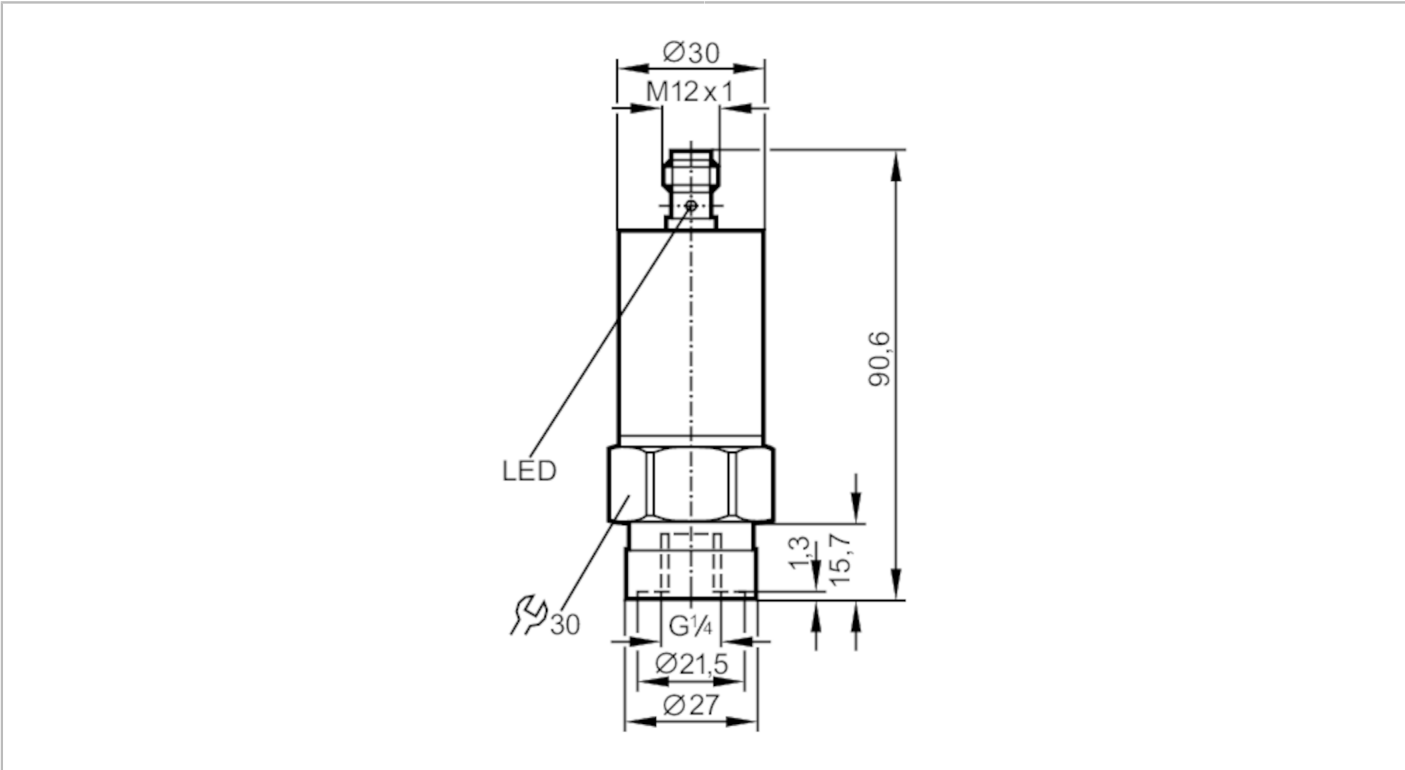


Pressure switch with ceramic measuring cell

PPA400-SBR14-ASIVG/US/ IV

phase-out article

Alternative articles: PP7550 + AC5225
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics		
Measuring range	[bar]	0...400
Process connection		threaded connection G 1/4 internal thread
Application		
Special feature		Gold-plated contacts
Design		analogue value (16 bit value incl. sign)
Application		for industrial applications
Media		Liquids
Conditionally suitable for		use in gases at pressures > 25 bar only on request
Medium temperature	[°C]	-25...80
Min. bursting pressure	[bar]	1000
Min. bursting pressure	[MPa]	100
Pressure rating	[bar]	600
Pressure rating	[MPa]	60
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	18...31.6 DC
Current consumption	[mA]	< 25



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Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	0.3
Integrated watchdog	yes

Outputs

Electrical design	AS-i
Overload protection	yes

Measuring/setting range

Measuring range [bar]	0...400
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Accuracy / deviations

Repeatability [% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 1,5; (linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)
Hysteresis deviation [% of the span]	< ± 0,5
Long-term stability [% of the span]	< ± 0,1; (per year)
Temperature coefficient zero point [% of the span / 10 K]	0,2; (0...70 °C)
Temperature coefficient span [% of the span / 10 K]	0,3; (0...70 °C)

Operating conditions

Ambient temperature [°C]	-25...70
Storage temperature [°C]	-40...100
Protection	IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD Klasse B
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	1 kV Class A / 2 kV class B
	EN 55011 emission	Level B
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]	293	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	248
Housing	cylindrical
Dimensions [mm]	Ø 30 / L = 90.6
Materials	stainless steel (304/1.4301); PA
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; FKM
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 internal thread
Restrictor element integrated	yes

PPA020



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Displays / operating elements

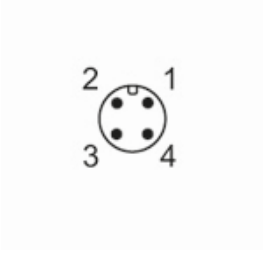
Display	operation	LED, green
	failure	LED, red

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

