

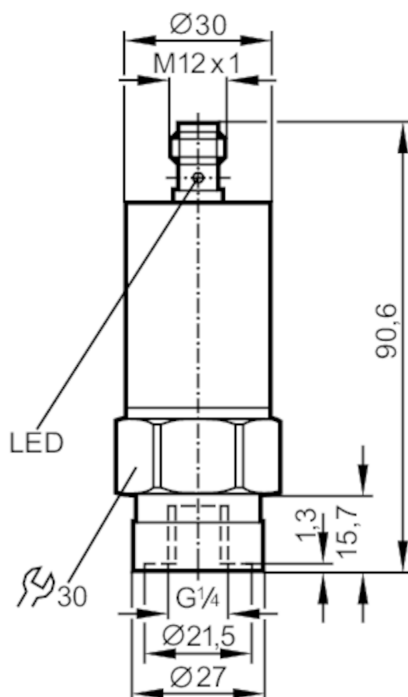
PPA060



Pressure switch with ceramic measuring cell

PPA600-SBR14-ASIVG/US/ IV

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Product characteristics

Measuring range	[bar]	0...600
Process connection		threaded connection G 1/4 Internal thread

Application

System		gold-plated contacts
Design		analog value (16 bit value incl. sign)
Application		for industrial applications
Media		liquids and gases
Conditionally suitable for		use in gases at pressures > 25 bar only on request
Medium temperature	[°C]	-25...80
Min. bursting pressure	[bar]	1200
Pressure rating	[bar]	800
Type of pressure		relative pressure

Electrical data

Operating voltage	[V]	18...31.6 DC
Current consumption	[mA]	< 25
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



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Outputs		
Electrical design		AS-i
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...600
Accuracy / deviations		
Repeatability	[% of the span]	$< \pm 0,1$; (with temperature fluctuations $< 10\text{ K}$)
Characteristics deviation	[% of the span]	$< \pm 1,5$
Hysteresis deviation	[% of the span]	$< \pm 1,0$
Long-term stability	[% of the span]	$< \pm 0,1$
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)
Mechanical data		
Material		stainless steel (1.4301 / 304); PA
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles		50 million
Process connection		threaded connection G 1/4 Internal thread
Restrictor element integrated		no (can be retrofitted)
Displays / operating elements		
Display	Power	LED, green
	error	LED, red
Remarks		
Pack quantity		1 pcs.

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Electrical connection

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



Connection

