PN8052

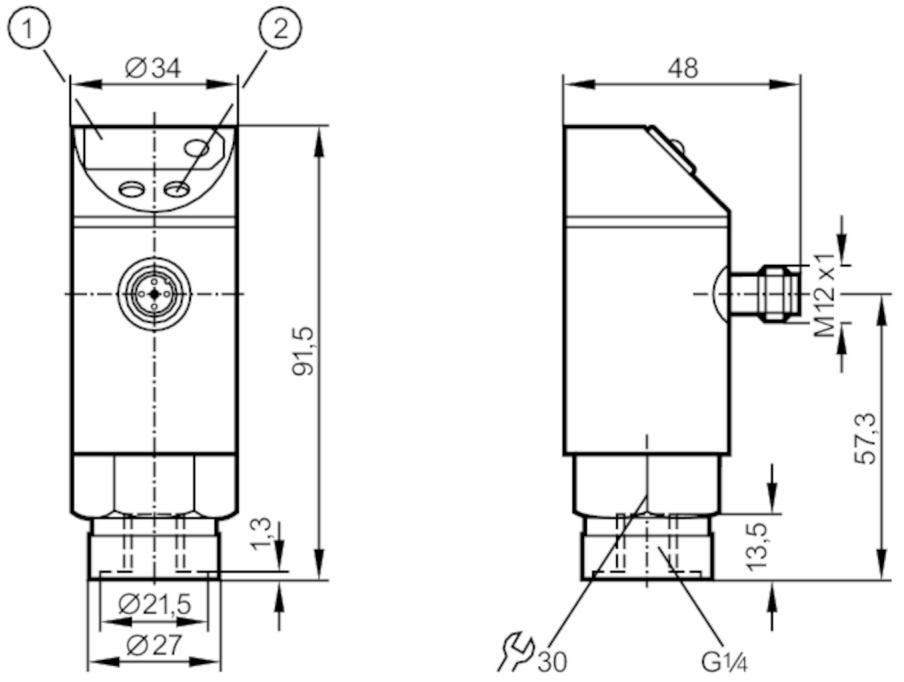
Pressure sensor with display

PN-100-SDR14-KFPKG/US/ /V

Article no longer available - archive entry

Alternative articles: PE3002

When selecting an alternative article and accessories please note that technical data may differ!



1 7-segment LED display
2 programming button

CE

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1
Measuring range	[bar]	0...100
Process connection		threaded connection G 1/4 internal thread
Application		
Application		for industrial applications
Media		liquids and gases
Conditionally suitable for		For gaseous media the application is limited to max. 25 bar.
Medium temperature	[°C]	-25...80
Min. bursting pressure	[bar]	650
Pressure rating	[bar]	300
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	20...30 DC
Current consumption	[mA]	< 60
Reverse polarity protection		yes
Power-on delay time	[s]	0.2

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Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analogue signal; (configurable)
Electrical design		PNP
Number of digital outputs		1
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...100
Set point SP	[bar]	5...100
Reset point rP	[bar]	3...98
In steps of	[bar]	1
Accuracy / deviations		
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]		< ± 2,0
Temperature drift per 10 K		< ± 0.3
Response times		
Switching frequency for a given set response time of one output		Response time (dAP) [ms]: 15 / 20 / 30 / 50 / 90 / 170 / 330 Switching frequency [Hz]: 50 / 35 / 30 / 20 / 15 / 9 / 5
Response time	[ms]	at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %
Delay time programmable dS, dr	[s]	0, 0,2, 0,4,...3
Software / programming		
Adjustment of the switch point		programming button
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67

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Tests / approvals		
EMC	IEC 801/2 ESD	4 kV CD / 8 kV AD
	IEC 801/3 HF	10 V/m
	IEC 801/4 Burst	2 kV
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		
Materials	stainless steel (1.4404 / 316L); PBT; PC; NBR; EPDM/X; FKM	
Materials (wetted parts)	stainless steel (1.4571/316Ti); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1/4 internal thread	
Displays / operating elements		
Display	switching status	LED, red
	function display	7-segment LED display
	measured values	7-segment LED display
Remarks		
Pack quantity	1 pcs.	
Electrical connection		

Connector: 1 x M12; coding: A



