



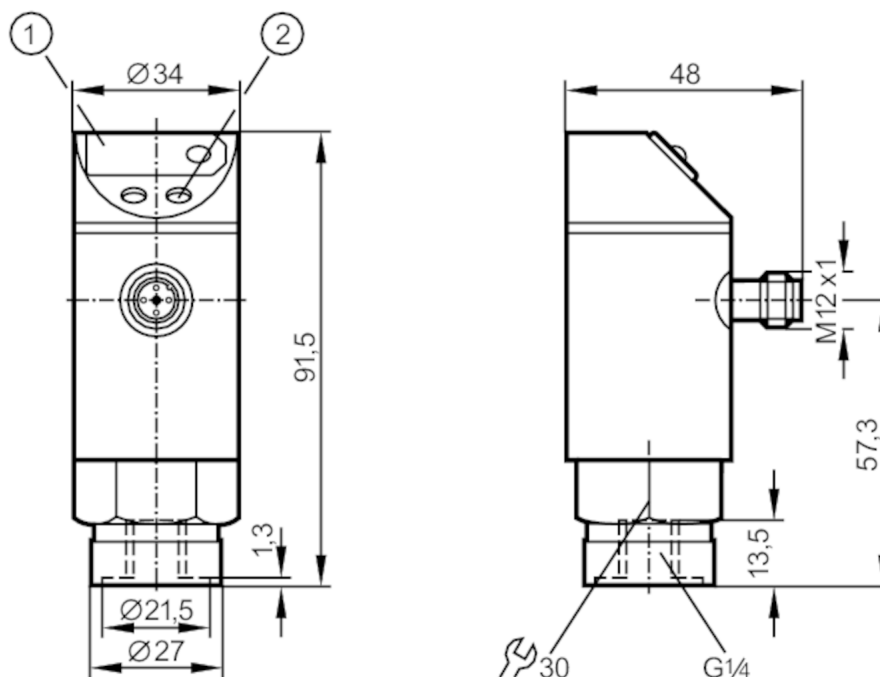
Pressure sensor with display

PN-001-RBR14-LFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PN3007

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



- 1 7-segment LED display
- 2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Measuring range [bar]	0...1
Process connection	threaded connection G 1/4 internal thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [bar]	30
Pressure rating [bar]	10
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes



Pressure sensor with display

PN-001-RBR14-LFPKG/US/ /V

Power-on delay time	[s]	0.2								
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 voltage output	[V]	0...10								
Min. load resistance	[Ω]	2000								
Short-circuit protection		yes								
Type of short-circuit protection		pulsed								
Overload protection		yes								
Measuring/setting range										
Measuring range	[bar]	0...1								
Set point SP	[bar]	0.02...1								
Reset point rP	[bar]	0.01...0.99								
In steps of	[bar]	0.01								
Accuracy / deviations										
Switch point accuracy	[X16]	< ± 1,5								
Repeatability	[X16]	< ± 0,25; (with temperature fluctuations < 10 K)								
Characteristics deviation	[X16]	< ± 1,0								
Temperature drift per 10 K		< ± 0.3								
Response times										
Switching frequency for a given set response time of one output	Response time [ms] (dAP)	3	6	10	17	30	60	125	250	500
	Switching frequency [Hz]	170	80	50	30	16	8	4	2	1
Response time	[ms]	at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %								
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50								
Max. response time analogue output	[ms]	3								
Software / programming										
Adjustment of the switch point		programming button								
Operating conditions										
Ambient temperature	[°C]	-25...80								

PN9027



Pressure sensor with display

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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	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
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	EPDM/X; FKM; NBR; PBT; PC; PTFE; stainless steel (1.4301 / 304)
Materials (wetted parts)	FKM; ceramics; stainless steel (1.4305 / 303)
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.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

