

PN9024

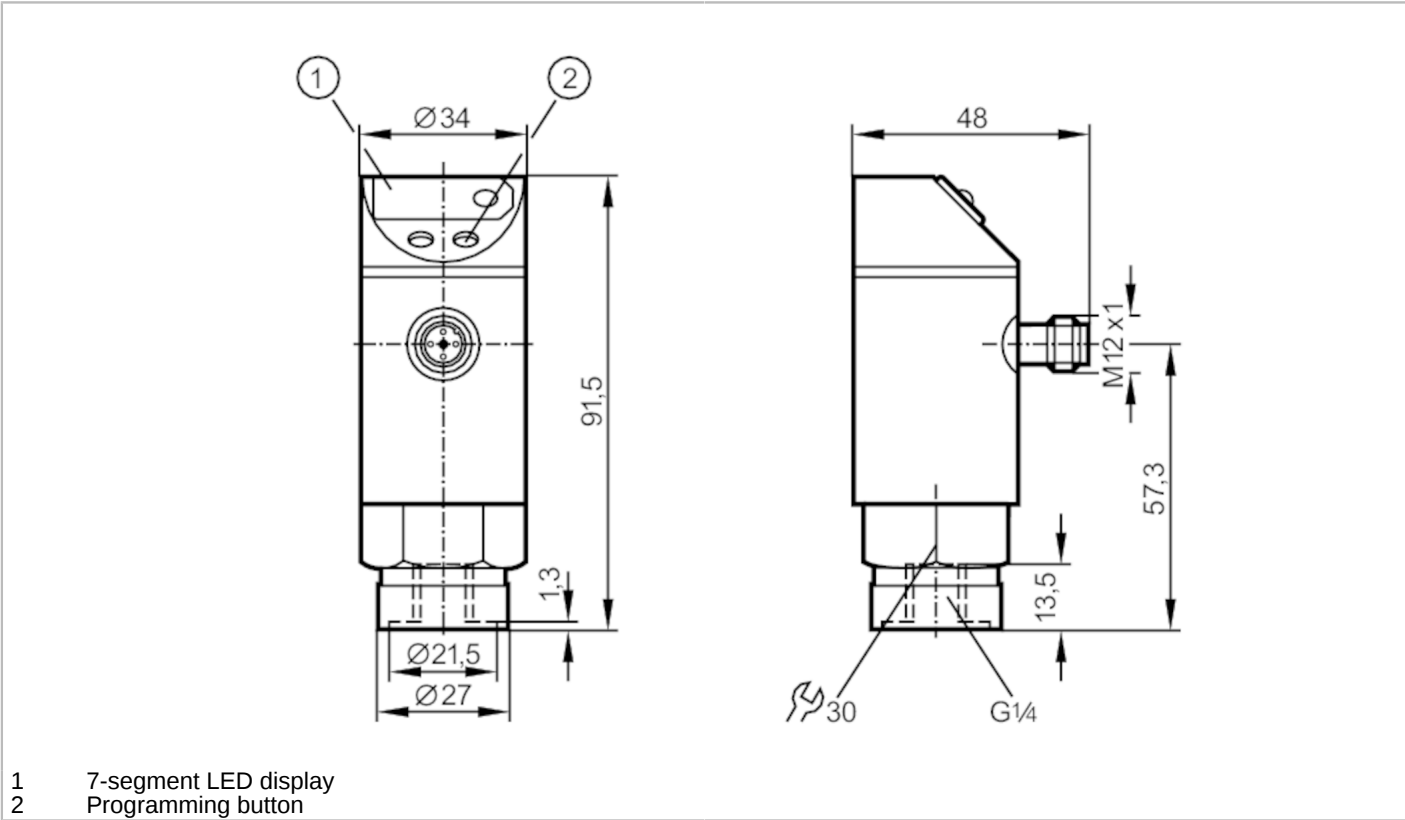


Pressure sensor with display

PN-010-RBR14-LFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PN3004
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
Measuring range	[bar]	0...10
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]	150
Pressure rating	[bar]	50
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



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Power-on delay time	[s]	0.2
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analog 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 analog outputs		1
Analog voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...10
Set point SP	[bar]	0.1...10
Reset point rP	[bar]	0.05...9.95
In steps of	[bar]	0.05
Accuracy / deviations		
Switch point accuracy	[% of the final value]	< ± 1,5
Repeatability	[% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the final value]	< ± 1,0
Temperature drift per 10 K		< ± 0.3
Reaction 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; Set point (SPx) = 70 %; Reset point (rPx) = 30 %
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50
Max. response time analog output	[ms]	3
Software / programming		
Adjustment of the switch point		Programming button

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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	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	
Material	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.

Electrical connection

Connector: 1 x M12; coding: A



Connection

