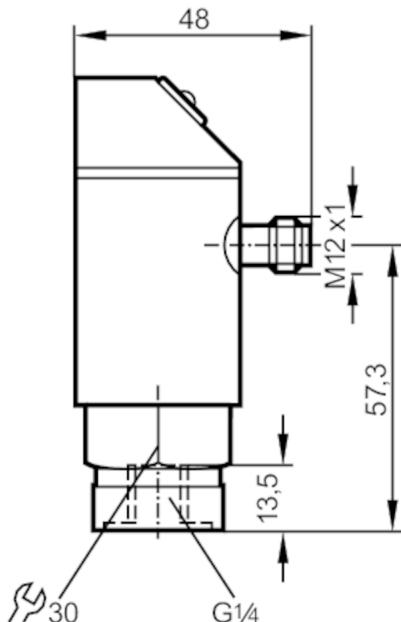
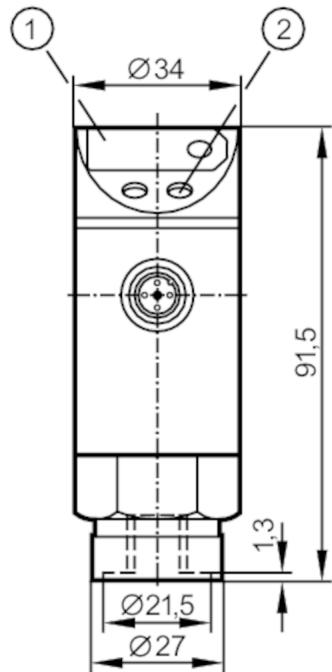


## Pressure sensor with display

PN-001-RBR14-HFPKG/US/ IV

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- 1 7-segment LED display  
2 Programming button

**Application**

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

**Electrical data**

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [ $M\Omega$ ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	0.2
Integrated watchdog	yes

**Inputs / outputs**

Number of inputs and outputs	Number of digital outputs: 1
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# PN5027



## Pressure sensor with display

PN-001-RBR14-HFPKG/US/ /V

Outputs		
Total number of outputs		1
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		1
Output function		normally open / closed; (configurable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
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 [% of the final value]		< ± 1,0
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)
Temperature drift per 10 K		< ± 0,3
Reaction times		
Switching frequency for a given set response time of one output	\$Ansprechzeit [ms] (dAP)	3, 6, 10, 17, 30, 60, 125, 250, 500
	\$Schaltfrequenz [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
Software / programming		
Adjustment of the switch point		Programming button
Parameter setting options		hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 65

## Pressure sensor with display

PN-001-RBR14-HFPKG/US/ /V

## 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; PA; PBT; PC; PTFE; stainless steel (1.4301 / 304)	
Materials (wetted parts)	stainless steel (1.4305 / 303); 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

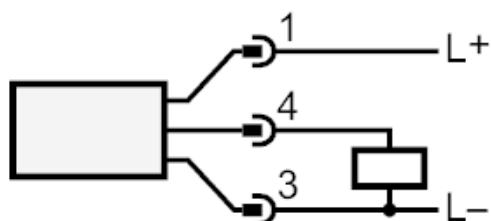
Pack quantity	1 pcs.
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## Electrical connection

Connector: 1 x M12; Contacts: gold-plated



## Connection



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