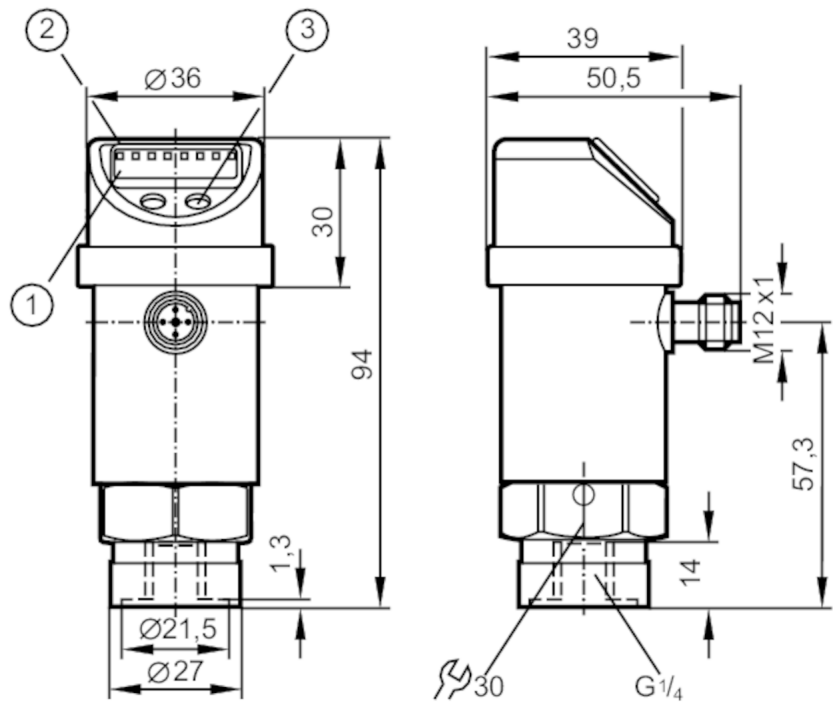


PN007A



Pressure sensor with display

PN-001-RBR14-MFPKG/US/3D /V



- 1 alphanumeric display 4-digit
- 2 LEDs Display unit / Switching status
- 3 Programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1	
Measuring range	0...1 bar	0...1000 mbar
Process connection	threaded connection G 1/4 Internal thread	

Application

System	gold-plated contacts	
Application	for industrial applications	
Media	liquids and gases	
Medium temperature [°C]	-20...60	
Min. bursting pressure	30000 mbar	3 MPa
Pressure rating	10000 mbar	1 MPa
Type of pressure	relative pressure	

Electrical data

Operating voltage [V]	18...36 DC; (to SELV/PELV)	
Current consumption [mA]	< 50	
Protection class	III	
Reverse polarity protection	yes	
Overvoltage protection	yes; (< 40 V)	
Power-on delay time [s]	0.3	
Integrated watchdog	yes	



Pressure sensor with display

PN-001-RBR14-MFPKG/US/3D /V

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	
Output function		normally open / closed; (configurable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	< 170	
Number of analog outputs		1	
Analog current output	[mA]	4...20	
Max. load	[Ω]	500	
Analog voltage output	[V]	0...10	
Min. load resistance	[Ω]	2000	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Measuring/setting range			
Measuring range		0...1 bar	0...1000 mbar
Set point SP	[mbar]	10...1000	
Reset point rP	[mbar]	5...995	
In steps of	[mbar]	5	
Factory setting		SP1 = 250 mbar	rP1 = 230 mbar
Accuracy / deviations			
Switch point accuracy [% of the span]		< ± 0,5	
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)	
Hysteresis deviation [% of the span]		< ± 0,25	
Long-term stability [% of the span]		< ± 0,05; (per 6 months)	
Temperature coefficient zero point [% of the span / 10 K]		0,2; (0...60 °C)	
Temperature coefficient span [% of the span / 10 K]		0,2; (0...60 °C)	
Reaction times			
Delay time programmable dS, dr		0; 0,2...50	
Max. response time analog output		3	

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Connection

