

PN5007

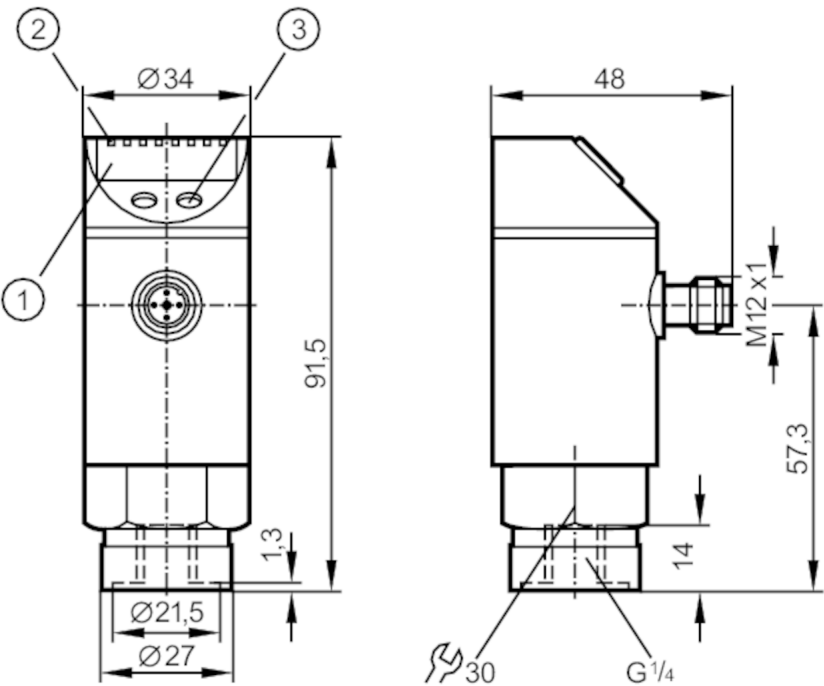


Pressure sensor with display

PN-001BRBR14-HFPKG/US/ IV

Status Archive

PN7097



- 1 alphanumeric display 4-digit
- 2 LEDs Display unit / switching status
- 3 programming button



Application		
Media	liquids and gases	
Medium temperature [°C]	-25...80	
Pressure rating	10000 mbar	145 psi
Min. bursting pressure	30000 mbar	450 psi
Type of pressure	relative pressure	
Electrical data		
Operating voltage [V]	18...36 DC; (according to EN 50178 SELV/PELV)	
Current consumption [mA]	< 50	
Min. insulation resistance [MΩ]	100; (500 V DC)	
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-001BRBR14-HFPKG/US/ IV

Outputs		
Total number of outputs	1	
Output signal	switching signal	
Electrical design	PNP	
Number of digital outputs	1	
Output function	normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC [V]	2	
Permanent current rating of switching output DC [mA]	250	
Switching frequency DC [Hz]	< 170	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Measuring/setting range		
Measuring range	0...1000 mbar	0...14.5 psi
Set point SP	10...1000 mbar	0.2...14.5 psi
Reset point rP	5...995 mbar	0.1...14.4 psi
In steps of	5 mbar	0.1 psi
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; (-20...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,2; (-20...80 °C)	
Response times		
Delay time programmable dS, dr [s]	0; 0,2...50	
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping; Display unit	
Operating conditions		
Ambient temperature [°C]	-20...80	
Storage temperature [°C]	-40...100	
Protection	IP 65	

PN5007



Pressure sensor with display

PN-001BRBR14-HFPKG/US/ IV

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 61000-4-5 Surge	0,5/1 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)
MTTF	[years]	231
Mechanical data		
Weight	[g]	258.8
Materials	stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); PC; PBT; PEI; FKM; PTFE	
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	Display unit	4 x LED, green
	switching status	LED, yellow
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Display unit	mbar; kPa; psi; inHg	
Remarks		
Notes	discontinued article	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		
		

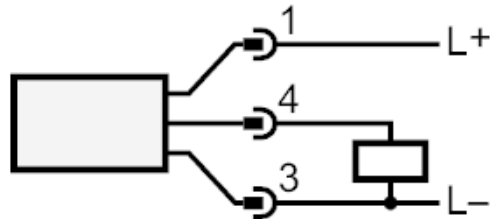
PN5007



Pressure sensor with display

PN-001BRBR14-HFPKG/US/ IV

Connection



Status Archive

PN7097