

New generation available: PN7297

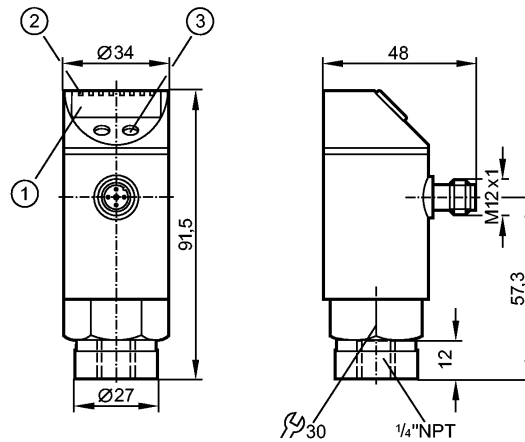
efectorsoo

PN7207



PN-001BRBR14-QFRKG/US/ /V

Pressure sensors



- 1: 4-digit alphanumeric display
- 2: LEDs (display unit / switching status)
- 3: Programming button



Product characteristics

Electronic pressure monitor

Quick disconnect

Function programmable

Process connection: 1/4" NPT

2 outputs

OUT1 = switching output

OUT2 = switching output or diagnostic output

4-digit alphanumeric display

Measuring range: 0...14.5 psi / 0...1000 mbar


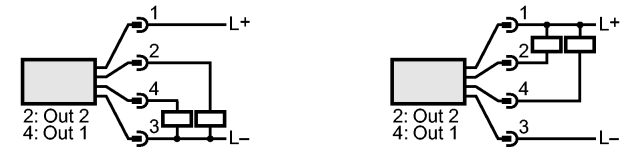
Application

Application	Type of pressure: relative pressure Liquids and gases	
Pressure rating	145 psi	10000 mbar
Bursting pressure min.	450 psi	30000 mbar
Medium temperature [°C]	-25...80	
Electrical data	DC PNP/NPN	
Operating voltage [V]	18...36 DC ¹⁾	
Current consumption [mA]	< 50	
Insulation resistance [MΩ]	> 100 (500 V DC)	
Protection class	III	
Reverse polarity protection	yes	
Overvoltage protection [V]	up to 40 V	
Outputs	2 outputs	
Output	OUT1 = switching output OUT2 = switching output or diagnostic output	
Output function	2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function)	
Current rating [mA]	250	
Voltage drop [V]	< 2	
Short-circuit protection	yes (non-latching)	
Switching frequency [Hz]	≤ 170	

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Measuring / setting range		
Display unit	mbar, kPa, psi, inHg	
Measuring range	0...14.5 psi	0...1000 mbar
Setting range		
Set point, SP	0.2...14.5 psi	10...1000 mbar
Reset point, rP	0.1...14.4 psi	5...995 mbar
in steps of	0.1 psi	5 mbar
Factory setting	SP1 = 3.6 psi; rP1 = 3.3 psi SP2 = 10.8 psi; rP2 = 10.5 psi	
Accuracy / deviations		
Accuracy / deviations (in % of the span)		
Switch point accuracy	< ± 0.5	
Characteristics deviation *)	< ± 0.25 (BFSL) / < ± 0.5 (LS)	
Hysteresis	< ± 0.25	
Repeatability **)	< ± 0.1	
Long-term stability ***)	< ± 0.05	
Temperature coefficients (TEMPCO) in the temperature range -20...80° C (in % of the span per 10 K)		
Greatest TEMPCO of the zero point	0.2	
Greatest TEMPCO of the span	0.2	
Reaction times		
Power-on delay time [s]	0.3	
Delay time programmable dS, dr [s]	0; 0.2...50	
Integrated watchdog	yes	
Software / programming		
Programming options	hysteresis / window function; N.O. / N.C; diagnostic function; output polarity; on delay, off delay; damping; display unit	
Interfaces		
IO-Link Device		
Transfer type	COM2 (38.4 kBaud)	
IO-Link revision	1.1	
IO-Link Device ID	332 d / 00 01 4C h	
Profiles	no profile	
SIO mode	yes	
Required master port class	A	
Process data analogue	1	
Process data binary	2	
Min. process cycle time [ms]	2.3	
Environment		
Ambient temperature [°C]	-20...80 (UB < 32 V) / -20...60 (UB > 32 V)	
Storage temperature [°C]	-40...100	
Protection	IP 65	
Tests / approvals		
EMC	EN 61000-6-2 EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [Years]	219	
Mechanical data		
Process connection	¼" NPT	
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM	
Housing materials	stainless steel (304S15); stainless steel 316L / 1.4404; PC; PBT; PEI; FPM; PTFE	
Switching cycles min.	100 million	
Weight [kg]	0.264	
Displays / operating elements		
Display	Display unit	4 x LED green
	Switching status	2 x LED yellow
	Function display	4-digit alphanumeric display

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	Measured values 4-digit alphanumeric display
Electrical connection	
Connection	M12 connector; gold-plated contacts
Wiring	
<p>Programming of the output function</p> <p>-----OUT1-----</p> <p>Hno = hysteresis / normally open Hnc = hysteresis / normally closed Fno = window function / normally open Fnc = window function / normally closed</p> <p>-----OUT2-----</p> <p>Hno = hysteresis / normally open Hnc = hysteresis / normally closed Fno = window function / normally open Fnc = window function / normally closed</p> <p>dESI = diagnostic function (normally closed)</p> 	
Remarks	
Remarks	<p>1) to EN50178, SELV, PELV *) BFSL = Best Fit Straight Line / LS = Limit Value Setting **) with temperature fluctuations < 10 K ***) in% of the span / 6 months</p>
Pack quantity	[piece] 1