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Pressure sensors

PN7024

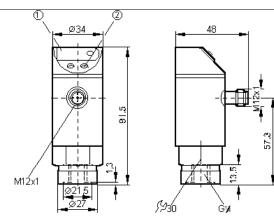
Electronic pressure monitor PN70 G¼ I

Function programmable

2 switching outputs

7-segment LED display

Measuring range 0...10 bar





1: 7-segment LED display, 2: Programming button

Application	Type of pressure: relative pressure Liquids and gases
Electrical design	DC PNP
Output	2 x normally open / closed programmable
Operating voltage [V]	1830 DC
Current rating [mA]	250
Short-circuit protection	Yes (non-latching)
Reverse polarity protection	yes
overload protection	yes
Integrated Watchdog	•
Voltage drop [V]	< 2
Current consumption [mA]	< 60
Permissible overl. pressure [bar]	50
Bursting pressure [bar]	150
Setting range Switch-on point, SP [bar] Switch-off point, rP [bar] in steps of [bar]	0.1010.0 0.05 9.95 0.05
Programming options	hysteresis / window function; N.O. / N.C.; on delay, off delay; damping
Adjustment of the switch point	Programming button
Deviations (% of value of measuring range) Accuracy of switch point Repeatability Temperature drift (/ 10 K) in the temperature range Power-on delay time [s] Switching frequency for a given set response time of one output *)	$ \begin{array}{c} <\pm1.0 \\ <\pm0.25 \\ <\pm0.3 \\ -2580 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$
Delay time programmable dS, dr [s]	0, 0.2,10, 11,50
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PN7024

Operating temperature [°C]	-2580
Medium temperature [°C]	-2580
Storage temperature [°C]	-40100
Protection	IP 65, III
Insulation resistance [MΩ]	> 100 (500 V DC)
Shock resistance [g]	50 (DIN / IEC 68-2-27, 11ms)
Vibration resistance [g]	20 (DIN / IEC 68-2-6, 10 - 2000 Hz)
Switching cycles min.	100 million
EMC	IEC 1000/4/2 ESD: 4 kV CD / 8 kV AD IEC 1000/4/3 HF radiated: 10 V/m IEC 1000/4/4 Burst: 2 KV IEC 1000/4/6 HF conducted: 10 V
Housing material	EPDM/X (Santoprene) FPM (Viton) PA Pocan PC (Macrolon) PTFE stainless steel (304S15)
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)
Function display Switching status LED System pressure, function LED	2 x red 7-segment LED display
Connection	M12 connector, gold-plated contacts

Wiring

Programming of the output function:

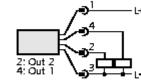
Hno = hysteresis / normally open Hnc = hysteresis / normally

closed

Fno = window function / normally open

Fnc = window function / normally closed

Complementary outputs: output 1: = Hno, output 2: = Hnc (with the same SP / rP)





Remarks

*) at rectangular pressure characteristic and setting: switch-on point (SPx) = 70 %, switch-off point (rPx) = 30 %

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