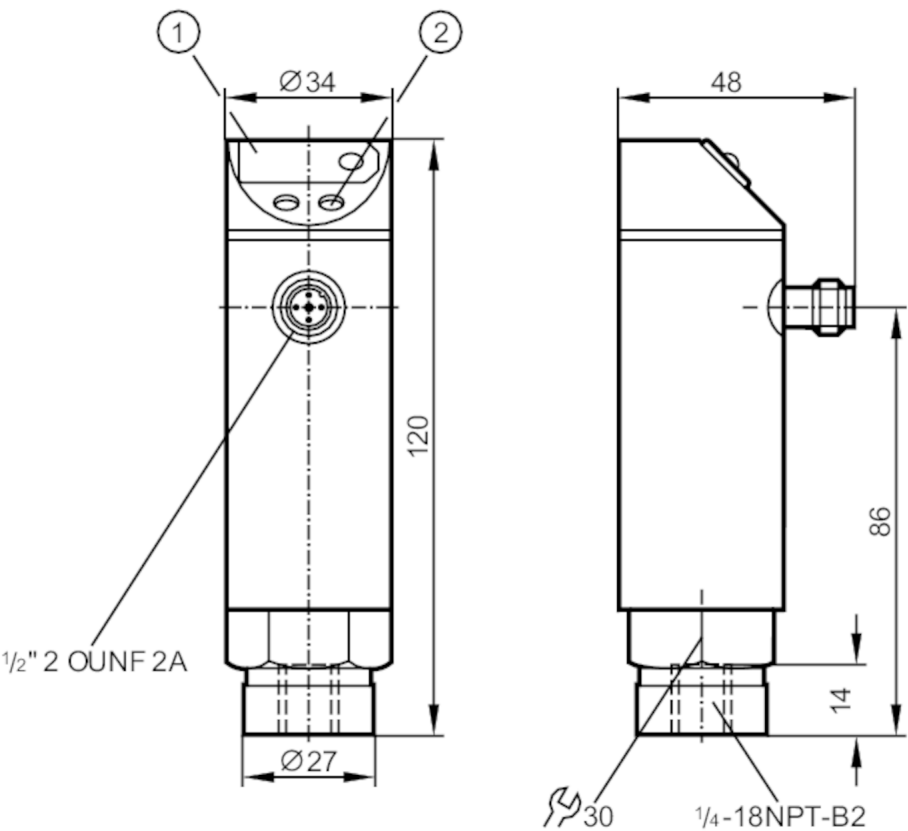


PN4224



Pressure sensor with display

PN-010-RBN14-HFBOW/LS/ IV



- 1 7-segment LED display
- 2 Programming button



Product characteristics				
Output signal	switching signal			
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Process connection	threaded connection 1/4 NPT Internal thread			
Application				
Application	for industrial applications			
Media	liquids and gases			
Medium temperature [°C]	-25...80			
Pressure rating	75 bar	1088 psi	7500 kPa	
Min. bursting pressure	150 bar	2175 psi	15000 kPa	
Type of pressure	relative pressure			



Pressure sensor with display

PN-010-RBN14-HFBOW/LS/ /V

Electrical data				
Operating voltage tolerance	[%]	5...10		
Operating voltage	[V]	85...265 AC		
Nominal voltage AC	[V]	< 250		
Current consumption	[mA]	< 10		
Min. insulation resistance	[MΩ]	100; (500 V DC)		
Protection class		II		
Reverse polarity protection		no		
Power-on delay time	[s]	0.2		
Integrated watchdog		yes		
Inputs / outputs				
Number of inputs and outputs		Number of digital outputs: 1		
Outputs				
Total number of outputs		1		
Output signal		switching signal		
Electrical design		Triac		
Number of digital outputs		1		
Output function		normally open / closed; (configurable)		
Max. voltage drop switching output AC	[V]	2		
Permanent current rating of switching output AC	[mA]	250; ((...70 °C) 1000 (...60 °C) 1500 (...45 °C) 2500 (...20 °C))		
Switching frequency AC	[Hz]	< 160		
Short-circuit proof		no		
Overload protection		no		
Measuring/setting range				
Measuring range		0...10 bar	0...145 psi	0...1000 kPa 0...1 MPa
Set point SP		0.1...9.99 bar	1...145 psi	10...999 kPa
Reset point rP		0.05...9.95 bar	1...144 psi	5...994 kPa
In steps of		0.01 bar	1 psi	1 kPa
Accuracy / deviations				
Switch point accuracy	[% of the span]	< ± 1,0		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)		
Linearity deviation	[% of the span]	< ± 0,5		
Hysteresis deviation	[% of the span]	< ± 0,1		
Long-term stability	[% of the span]	< ± 0,1; (per year)		
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,2; (-25...80 °C)		
Temperature coefficient span	[% of the span / 10 K]	< ± 0,3; (-25...80 °C)		

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Pressure sensor with display

PN-010-RBN14-HFBOW/LS/ /V

Reaction times		
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50
Damping for the switching output dAP	[s]	0...4
Software / programming		
Adjustment of the switch point		Programming button
Parameter setting options		hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 65
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)
MTTF	[years]	224.58
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	388.5
Material		stainless steel (1.4301 / 304); PC; PBT; PA; FKM
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection 1/4 NPT Internal thread
Restrictor element integrated		no (can be retrofitted)
Displays / operating elements		
Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting
Remarks		
Remarks		n.c. = not used
		\$
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x 1/2"		

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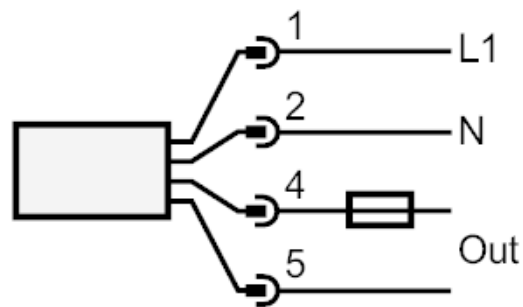


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Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting