

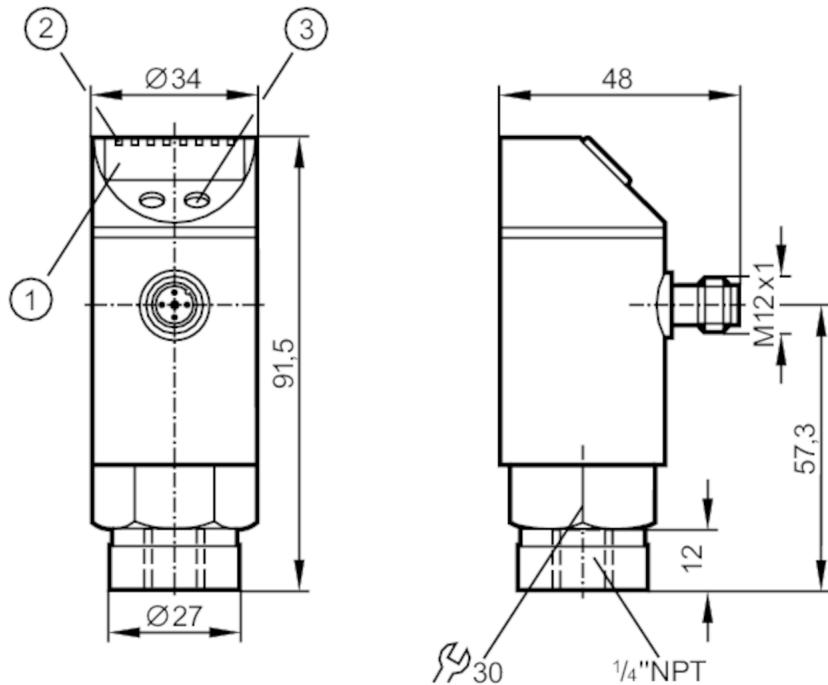
## Pressure sensor with display

PN-025-RBN14-HFPKG/US/ IV

Article to be discontinued

Alternative articles: PN7293

When selecting an alternative article and accessories please note that technical data may differ!



- 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		
Measuring range	0...25 bar	0...363 psi	0...2.5 MPa
Process connection	threaded connection 1/4" NPT Internal thread		

## Application

System	gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Min. bursting pressure	350 bar	5075 psi	35 MPa
Pressure rating	150 bar	2175 psi	15 MPa
Type of pressure	relative pressure		

## Electrical data

Operating voltage [V]	18...36 DC; (to SELV/PELV)		
Current consumption [mA]	< 50		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		

# PN5203



## Pressure sensor with display

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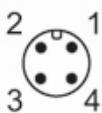
Reverse polarity protection		yes	
Oversupply protection		yes; (< 40 V)	
Power-on delay time [s]		0.3	
Integrated watchdog		yes	
<b>Inputs / outputs</b>			
Number of inputs and outputs		Number of digital outputs: 1	
<b>Outputs</b>			
Total number of outputs		1	
Output signal		switching signal	
Electrical 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	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
<b>Measuring/setting range</b>			
Measuring range	0...25 bar	0...363 psi	0...2.5 MPa
Set point SP	0.2...25 bar	4...362 psi	0.02...2.5 MPa
Reset point rP	0.1...24.9 bar	2...360 psi	0.01...2.49 MPa
In steps of	0.1 bar	2 psi	0.01 MPa
Factory setting		SP1 = 90 psi	rP1 = 84 psi
<b>Accuracy / deviations</b>			
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)	
<b>Reaction times</b>			
Delay time programmable dS, dr [s]		0; 0,2...50	
<b>Software / programming</b>			
Parameter setting options		hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping; Display unit	

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Operating conditions		
Ambient temperature	[°C]	-20...80
Storage temperature	[°C]	-40...100
Protection		IP 65
Tests / approvals		
EMC		EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted
Shock resistance		DIN IEC 68-2-27
Vibration resistance		DIN IEC 68-2-6
MTTF	[years]	231
Mechanical data		
Weight	[g]	261.6
Material		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 1/4" NPT Internal thread
Displays / operating elements		
Display	Display unit Switching status Function display Measured values	3 x LED, green LED, yellow alphanumeric display, 4-digit alphanumeric display, 4-digit
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

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### Connection

