

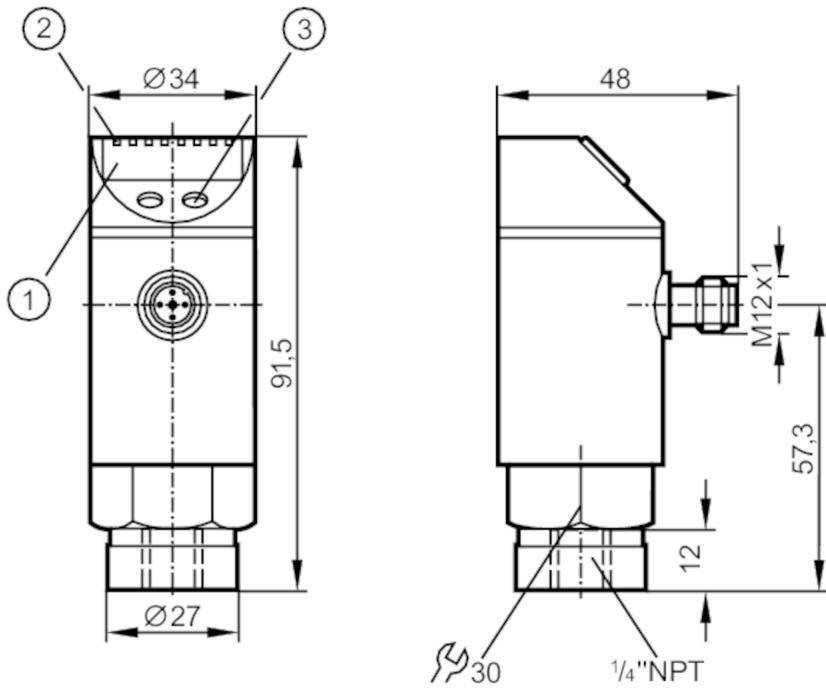
Pressure sensor with display

PN-2,5-RBN14-HFPKG/US/ /V

Article no longer available - archive entry

Alternative articles: PN7296

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...2.5 bar	0...2500 mbar	0...36.3 psi
Process connection	threaded connection 1/4" NPT internal thread		

Application

Special feature	Gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]		-25...80	
Min. bursting pressure	50 bar	725 psi	5000 kPa
Pressure rating	20 bar	290 psi	2000 kPa
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		

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Reverse polarity protection	yes
Oversupply protection	yes; (< 40 V)
Power-on delay time [s]	0.3
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	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...2.5 bar 0...2500 mbar 0...36.3 psi 0...250 kPa
Set point SP [% of the span]	0.02...2.5 bar 0.4...36.2 psi 2...250 kPa
Reset point rP [% of the span]	0.01...2.49 bar 0.2...36 psi 1...249 kPa
In steps of	0.01 bar 0.2 psi 1 kPa
Factory setting	SP1 = 9.0 psi rP1 = 8.4 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

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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	4 kV CD / 8 kV AD 10 V/m 2 kV 0,5/1 kV 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)		
Mechanical data				
Weight	[g]	264		
Materials	stainless steel (304/1.4301); stainless steel (316L/1.4404); PC; PBT; PEI; FKM; PTFE			
Materials (wetted parts)	stainless steel (303/1.4305); 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

