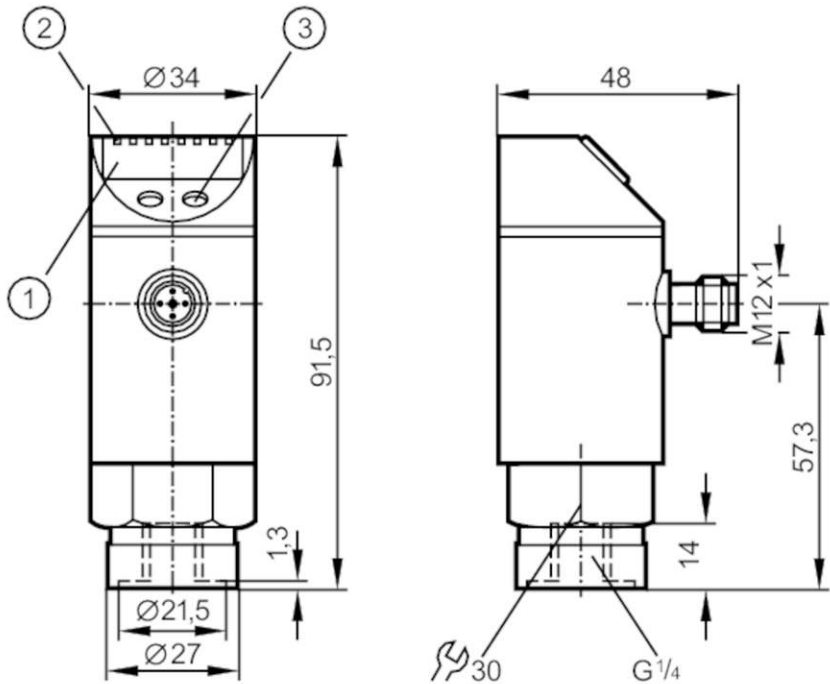


PNI024



Pressure sensor with analogue input

PNI010-RBR14-QFRKG/US/ IV



- 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: 2	
Measuring range [bar]	0...10	
Process connection	threaded connection G 1/4 internal thread	
Application		
Special feature	Gold-plated contacts	
Application	for industrial applications	
Media	liquids and gases	
Medium temperature [°C]	-25...80	
Min. bursting pressure	150 bar	15 MPa
Pressure rating	50 bar	5 MPa
Type of pressure	relative pressure	
Electrical data		
Operating voltage [V]	18...30 DC	
Current consumption [mA]	< 90	
Min. insulation resistance [MΩ]	100; (500 V DC)	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	0.2	
Integrated watchdog	yes	



Pressure sensor with analogue input

PNI010-RBR14-QFRKG/US/ IV

Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Inputs		
Analogue input (current)	[mA]	0...20
Input resistance	[Ω]	300
Analogue input (voltage)	[V]	0...10
Input resistance	[kΩ]	90
Outputs		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP/NPN
Number of digital outputs		2
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
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...10
Set point SP	[bar]	-2.46...10
Note on setpoint SP		differential pressure
Reset point rP	[bar]	-2.5...9.96
Note on reset point rP		differential pressure
In steps of	[bar]	0.02
Accuracy / deviations		
Characteristics deviation [% of the final value]		< ± 0,6
Temperature drift per 10 K		< ± 0.3
Characteristics deviation analogue input		< ± 0.3
Temperature drift analogue input per 10 K		< ± 0.1
Temperature drift analogue input	[°C]	0...80
Response times		
Response time	[ms]	< 3
Delay time programmable dS, dr	[s]	0, 0,1...50
Damping process value dAP	[s]	0...4



Pressure sensor with analogue input

PNI010-RBR14-QFRKG/US/ /V

Software / programming		
Adjustment of the switch point	programming button	
Parameter setting options	hysteresis / window; normally open / normally closed; switching logic; current/voltage input; 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]	152
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	289
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 91.5
Materials		stainless steel (303/1.4305); PBT; PC; PA; FKM
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection G 1/4 internal thread
Restrictor element integrated		no (can be retrofitted)
Displays / operating elements		
Display	Display unit	3 x LED, green
	display mode	3 x LED, green
	switching status	2 x LED, yellow
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Display unit		bar; psi; MPa
Remarks		
Pack quantity		1 pcs.

PNI024

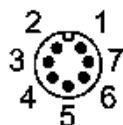


Pressure sensor with analogue input

PNI010-RBR14-QFRKG/US/ IV

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

