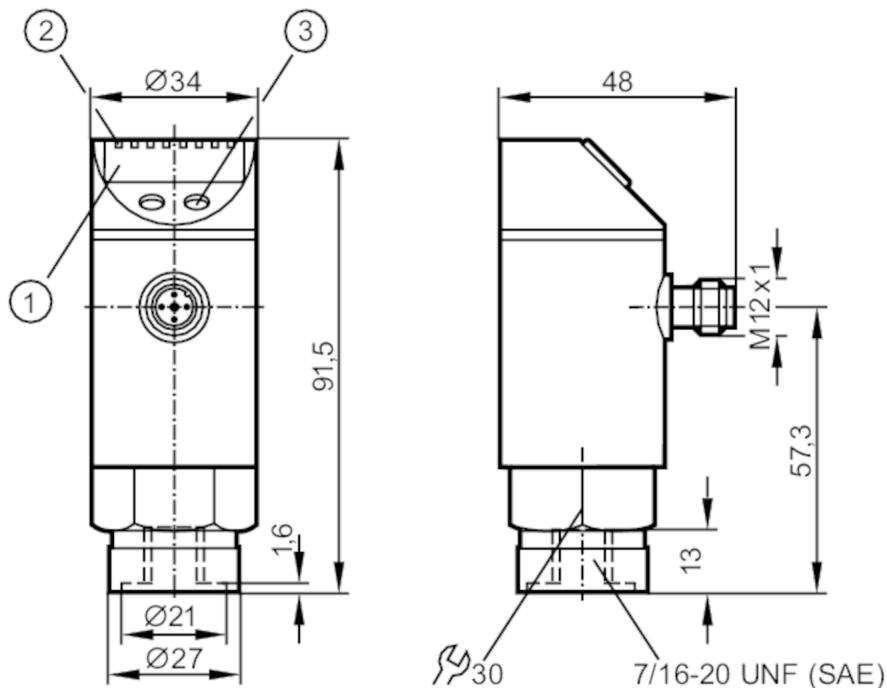


Pressure sensor with display

PN-010-RBU76-QFRKG/US/ IV

phase-out article



- 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	-1...10 bar	-14.5...145 psi	-100...1000 kPa
Process connection	threaded connection 7/16" - 20 UNF 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	2175 psi	15 MPa
Pressure rating	75 bar	1087 psi	7.5 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		
Reverse polarity protection	yes		
Overvoltage protection	yes; (< 40 V)		

PN7304



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Power-on delay time	[s]	0.3		
Integrated watchdog		yes		
Inputs / outputs				
Number of inputs and outputs	Number of digital outputs: 2			
Outputs				
Total number of outputs		2		
Output signal	switching signal; IO-Link; (configurable)			
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		
Measuring/setting range				
Measuring range	-1...10 bar	-14.5...145 psi	-100...1000 kPa	-0.1...1 MPa
Set point SP	-0.9...10 bar	-12...145 psi	-0.09...1 MPa	
Reset point rP	-0.95...9.95 bar	-13...144 psi	-0.095...0.995 MPa	
In steps of	0.05 bar	1 psi	0.005 MPa	
Factory setting		SP1 = 36 psi	rP1 = 33 psi	
		SP2 = 108 psi	rP2 = 105 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; diagnostic function; switching logic; switch-on/switch-off delay; Damping; Display unit			

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Pressure sensor with display

PN-010-RBU76-QFRKG/US/ I/V

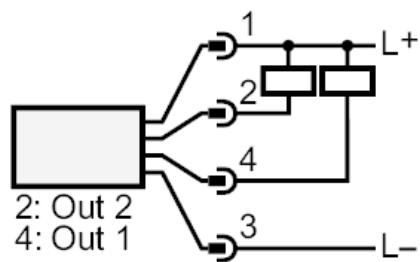
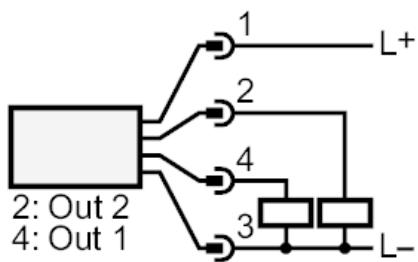
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Profiles		no profile
SIO mode		yes
Required master port type		A
Process data analogue		1
Process data binary		2
Min. process cycle time [ms]		2.3
Type of operation	DeviceID	
Supported DeviceIDs	default	330
Operating conditions		
Ambient temperature [°C]		-20...80
Storage temperature [°C]		-40...100
Protection		IP 65
Tests / approvals		
EMC	EN 61000-6-2 EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]		219
Mechanical data		
Weight [g]		265
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 7/16" - 20 UNF internal thread	
Restrictor element integrated	no (can be retrofitted)	
Displays / operating elements		
Display	Display unit switching status function display measured values	3 x LED, green 2 x LED, yellow alphanumeric display, 4-digit alphanumeric display, 4-digit
Remarks		
Pack quantity		1 pcs.

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Electrical connection

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



OUT1	switching output
	IO-Link
OUT2	switching output
	Diagnostic output