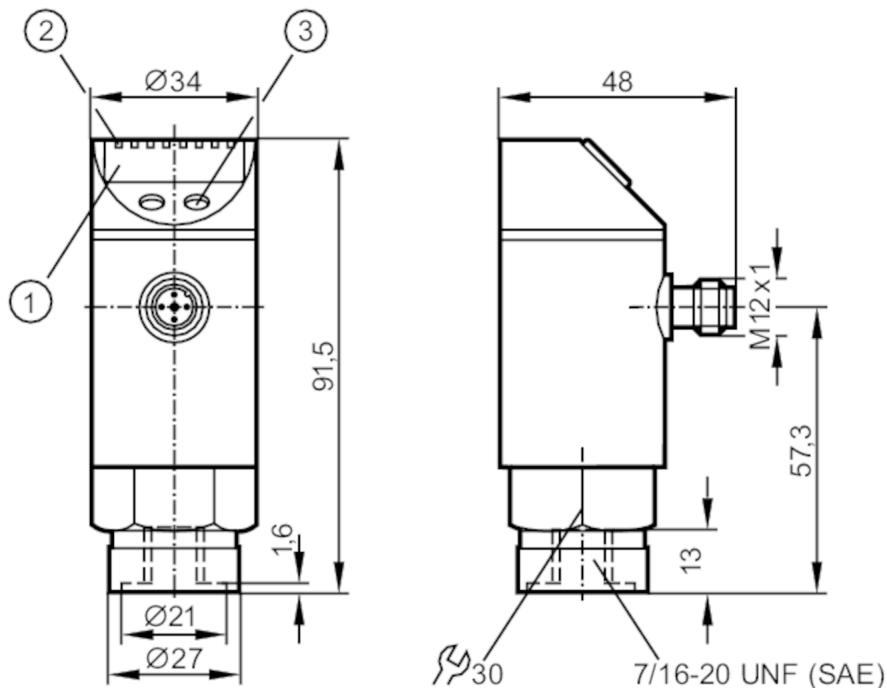


## Pressure sensor with display

PN-010-RBU76-QFRKG/US/ IV

Article to be discontinued



- 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

System	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)		

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## Pressure sensor with display

PN-010-RBU76-QFRKG/US/ IV

Power-on delay time	[s]	0.3		
Integrated watchdog		yes		
<b>Inputs / outputs</b>				
Number of inputs and outputs		Number of digital outputs: 2		
<b>Outputs</b>				
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 / 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	-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	
<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; 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 /V

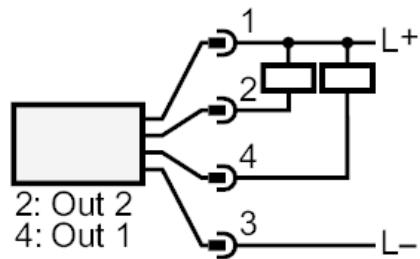
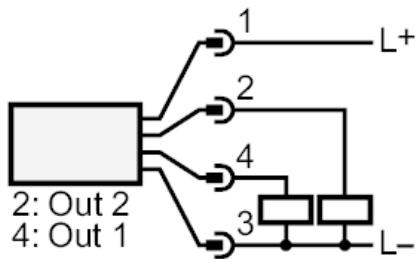
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Profiles		no profile
SIO mode		yes
Required master port class		A
Process data analog		1
Process data binary		2
Min. process cycle time [ms]		2.3
Type of operation	DeviceID	
Supported DeviceIDs	default	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
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 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.

## Pressure sensor with display

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

### Electrical connection

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



OUT1	Switching output IO-Link
OUT2	Switching output Diagnostic output