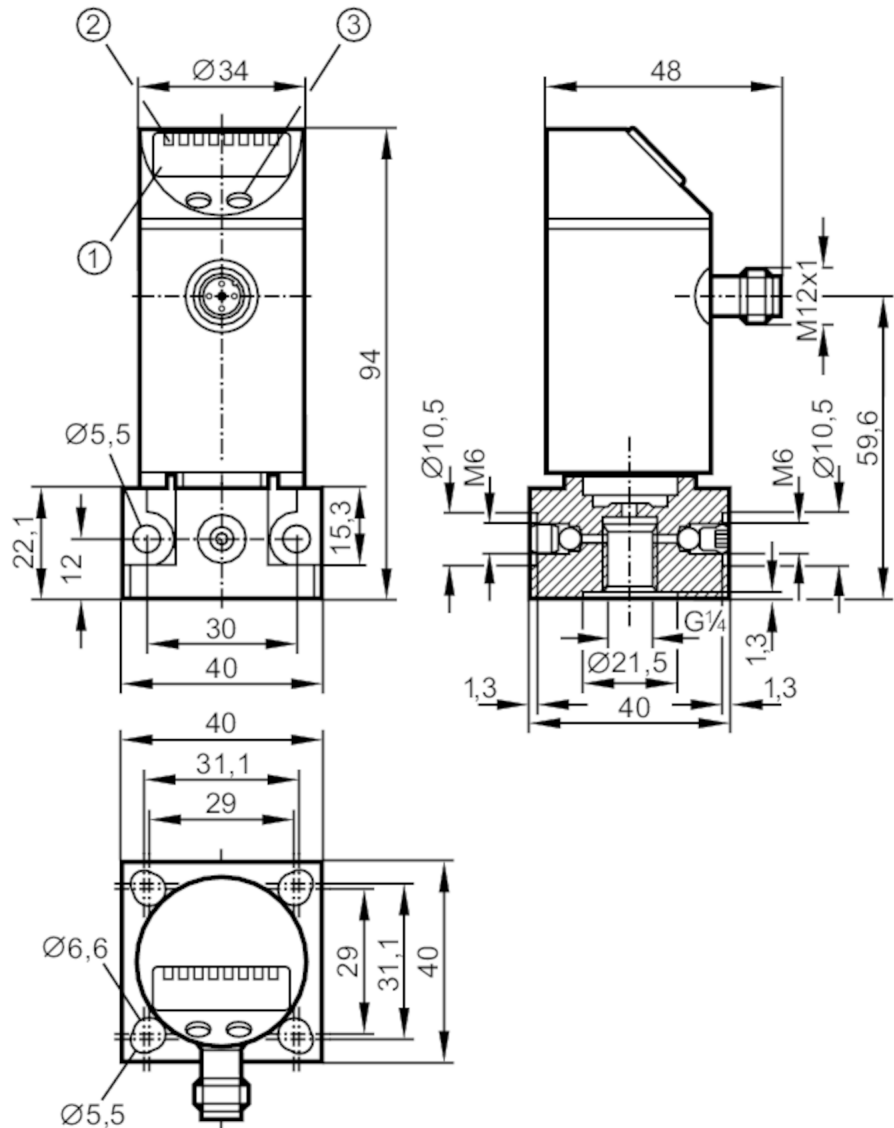


PY7003



Pressure sensor with display

PN-025-RBR14-KG /US/ /V



- 1 alphanumeric display 4-digit
- 2 LEDs Display unit / switching status
- 3 programming button

CE ENEC IO-Link

Application			
Design	with flange adapter		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Pressure rating	150 bar	2175 psi	15 MPa
Min. bursting pressure	350 bar	5075 psi	35 MPa
Type of pressure	relative pressure		



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Electrical data			
Operating voltage	[V]	18...36 DC; (according to EN 50178 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)	
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		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 = 6.3 bar rP1 = 5.8 bar
			SP2 = 18.8 bar rP2 = 18.3 bar
Accuracy / deviations			
Switch point accuracy [% of the final value]		< ± 0,5	
Repeatability [% of the final value]		< ± 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the final value]		< ± 0,5	
Hysteresis deviation [% of the final value]		< ± 0,25	
Long-term stability [% of the final value]		< ± 0,05	
Response times			
Delay time programmable dS, dr		[s]	0; 0,2...50

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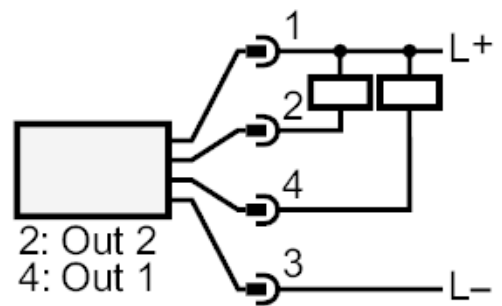
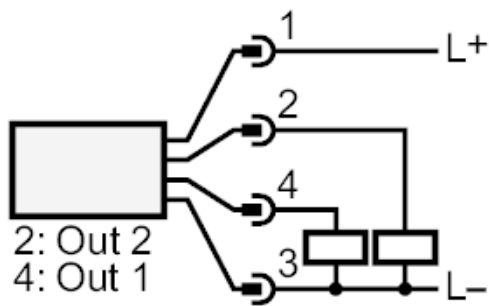
Software / programming		
Parameter setting options		hysteresis / window; normally open / normally closed; diagnostic function; switching logic; switch-on/switch-off delay; Damping; Display unit
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link device ID		310 d / 00 01 36 h
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
Operating conditions		
Ambient temperature [°C]		-20...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 61000-4-5 Surge	0,5/1 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)
Mechanical data		
Weight [g]		368.4
Materials		stainless steel (1.4301 / 304); PC; PBT; PEI; FKM; PTFE
Materials (wetted parts)		steel (1.4104 / 430F); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection G 1/4 internal thread internal threadM6
Displays / operating elements		
Display	Display unit	3 x LED, green
	switching status	2 x LED, yellow
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

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OUT1	switching output
OUT2	switching output
	Diagnostic output