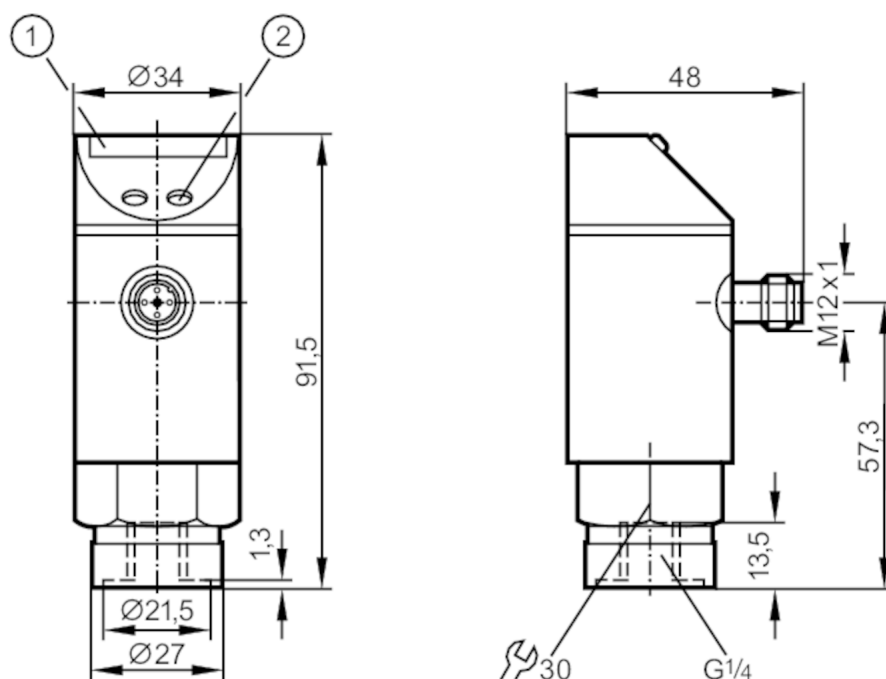


Pressure sensor with LED bar display

PB-001-RBR14-HFPKG/US/ IV

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- 1 LED bar display
2 programming button



Product characteristics

Output signal	switching signal
Measuring range [bar]	0...1
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
Pressure rating [bar]	10
Min. bursting pressure [bar]	30
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 50
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



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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]		10	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Measuring/setting range			
Measuring range [bar]		0...1	
Set point SP [bar]		0.05...1	
Reset point rP [bar]		0.03...0.98	
In steps of [bar]		0.01	
Note on hysteresis		adjustable	
Accuracy / deviations			
Switch point accuracy [% of the final value]		< ± 2,0	
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)	
Temperature drift per 10 K		< ± 0.3	
Software / programming			
Adjustment of the switch point		programming button	
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)

PB5027



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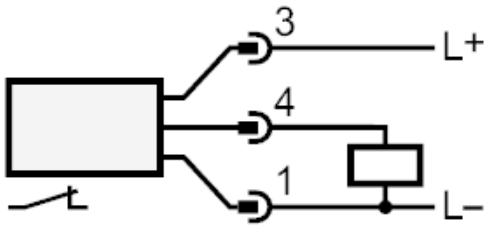
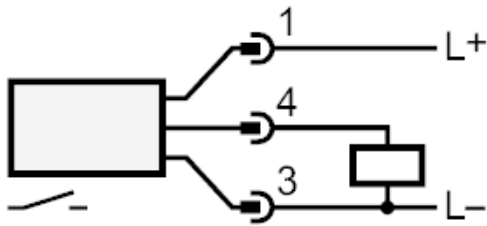
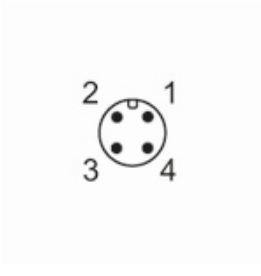
Mechanical data	
Materials	EPDM/X; FKM; NBR; PA; PBT; PC; PTFE; stainless steel (1.4301 / 304)
Materials (wetted parts)	FKM; ceramics; stainless steel (1.4305 / 303)
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 internal thread
Restrictor element integrated	no (can be retrofitted)

Displays / operating elements		
Display	switching status	LED, yellow
	measured values	10 x LED, green Resolution 10 % of the final value

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



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