PB5124

Pressure sensor with LED bar display

PB-010-RBM12-HFPKG/US/ /V

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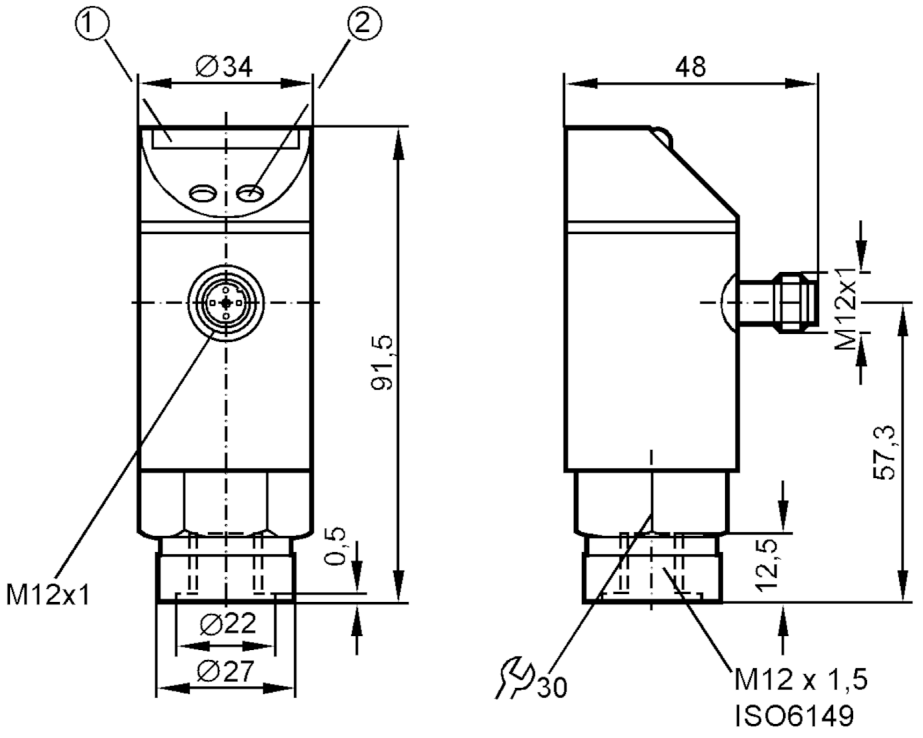

1 LED bar display
2 programming button

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Measuring range	[bar]	0...10
Process connection		threaded connection M12 x 1,5 internal thread ISO 6149
Application		
Special feature		Gold-plated contacts
Application		for industrial applications
Media		liquids and gases
Medium temperature	[°C]	-25...80
Min. bursting pressure	[bar]	150
Pressure rating	[bar]	50
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...10	
Set point SP	[bar]	0.5...10	
Reset point rP	[bar]	0.3...9.8	
In steps of	[bar]	0.1	
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)
Mechanical data			
Dimensions	[mm]	Ø 34 / L = 91.5	

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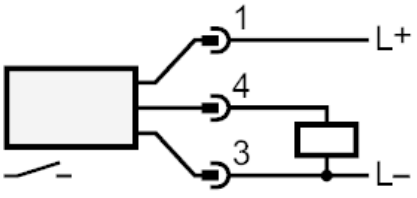
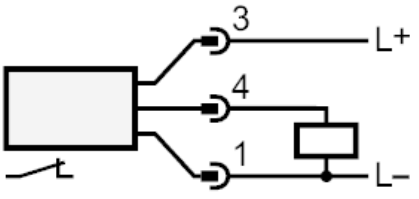
Materials	EPDM/X; FKM; NBR; PA; PBT; PC; PTFE; stainless steel (304/1.4301)	
Materials (wetted parts)	FKM; ceramics; stainless steel (303/1.4305)	
Min. pressure cycles	100 million	
Process connection	threaded connection M12 x 1,5 internal thread ISO 6149	

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; coding: A; Contacts: gold-plated