

Pressure sensor with LED bar display

PB-025-SBM12-HFPKG/US/ IV

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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...25
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]	350
Pressure rating [bar]	100
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...25
Set point SP	[bar]	1.25...25
Reset point rP	[bar]	0.75...24.5
In steps of	[bar]	0.25
Note on hysteresis		adjustable
Accuracy / deviations		
Switch point accuracy	[X16]	< ± 2,0
Repeatability	[X16]	< ± 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
Materials		EPDM/X; FKM; NBR; PA; PBT; PC; PTFE; stainless steel (1.4301 / 304)
Materials (wetted parts)		FKM; ceramics; stainless steel (1.4305 / 303)

PB5123



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Min. pressure cycles	100 million
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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.
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Electrical connection

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

