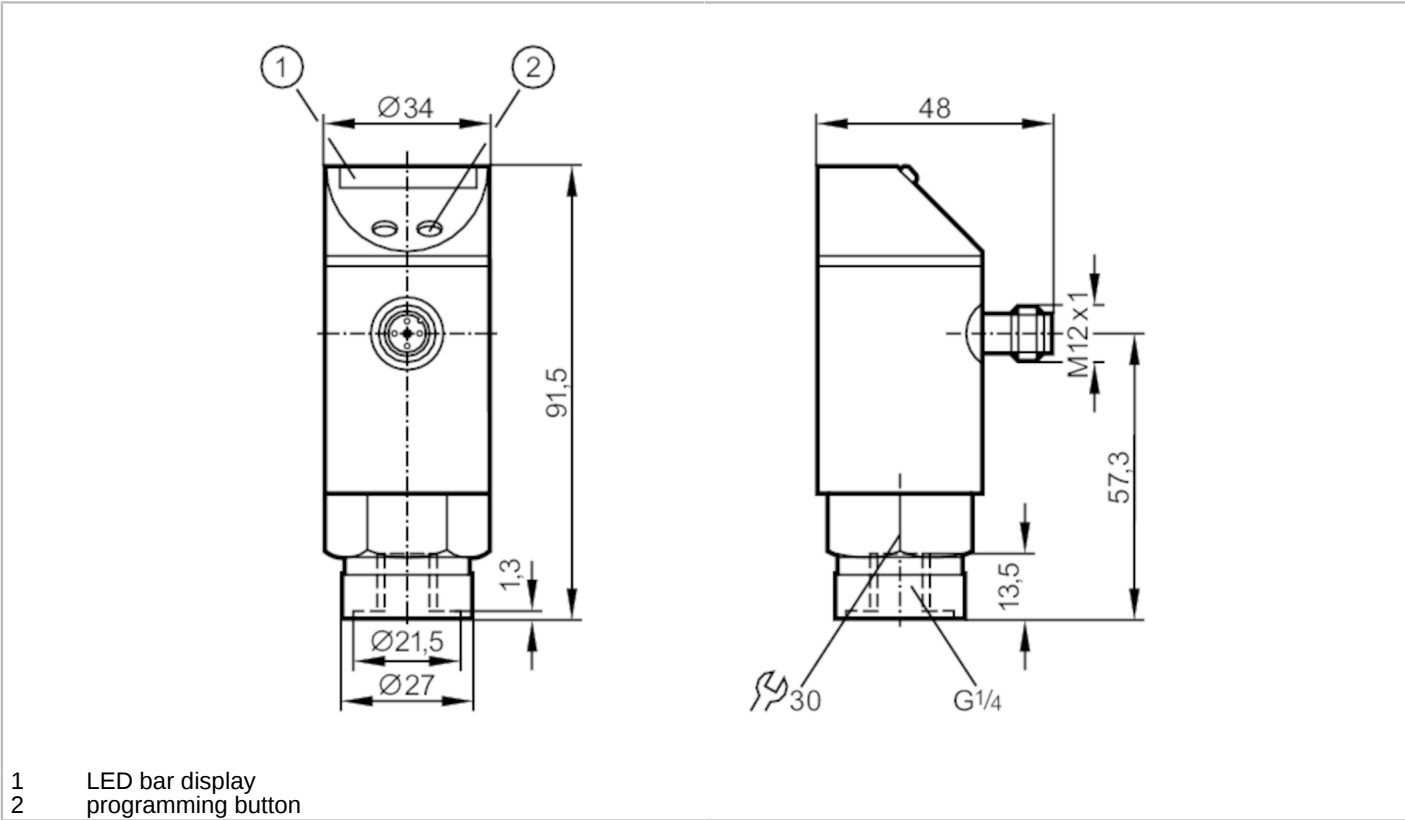# PB7020

Pressure sensor with LED bar display

PB-400-SBR14-QFPKG/US/   /V

Article no longer available - archive entry

Alternative articles: PN7000
When selecting an alternative article and accessories please note that technical data may differ!

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1   LED bar display
2   programming button

CE c(UL)us LISTED

Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2
Measuring range [bar]	0...400
Process connection	threaded connection G 1/4 internal thread
Application	
Application	for industrial applications
Media	liquids and gases
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.
Medium temperature [°C]	-25...80
Min. bursting pressure [bar]	1000
Pressure rating [bar]	600
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

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Reverse polarity protection		yes	
Power-on delay time	[s]	0.2	
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	
Electrical design		PNP	
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]	10	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	

Measuring/setting range			
Measuring range	[bar]	0...400	
Set point SP	[bar]	20...400	
In steps of	[bar]	4	
Hysteresis	[bar]	8	

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 67	

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)	

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Mechanical data	
Materials	EPDM/X; FKM; NBR; PBT; PC; stainless steel (304/1.4301)
Materials (wetted parts)	FKM; ceramics; stainless steel (303/1.4305)
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 internal thread

Displays / operating elements		
Display	switching status	2 x 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