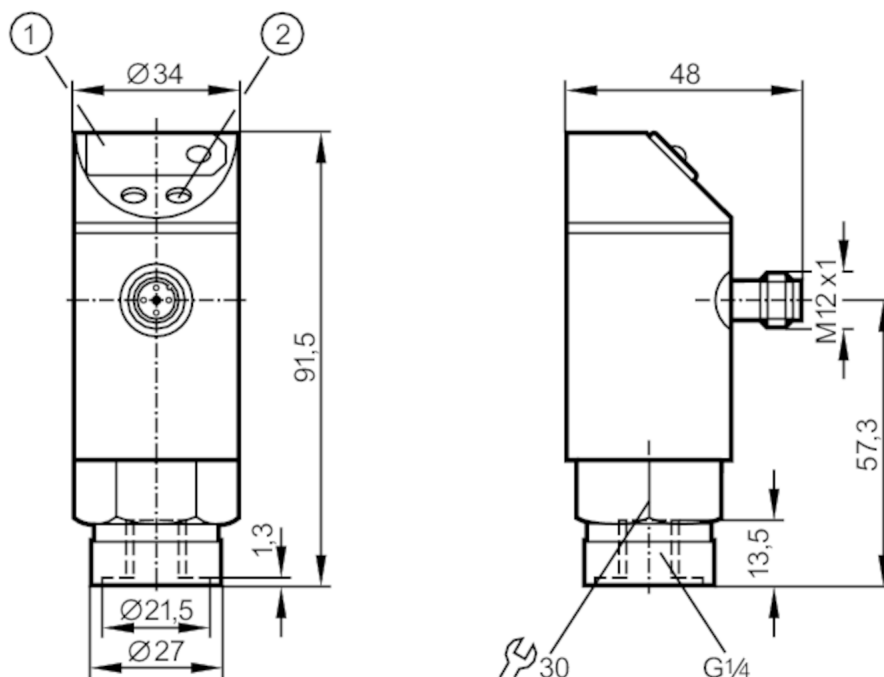




Pressure sensor with display

PE-100-SBR14-KFPKG/US/ /E

Article no longer available - archive entry



- 1 7-segment LED display
- 2 Programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [bar]	0...100
Process connection	threaded connection G 1/4 Internal thread

Application

System	gold-plated contacts
Application	for industrial applications
Media	liquids and gases
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.
Cannot be used for	oils
Medium temperature [°C]	-25...80
Min. bursting pressure [bar]	650
Pressure rating [bar]	300
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes



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Power-on delay time	[s]	0.2
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
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Outputs

Total number of outputs	2
Output signal	switching signal; analog signal; (configurable)
Electrical design	PNP
Number of digital outputs	1
Max. voltage drop switching output DC	2
Permanent current rating of switching output DC	250
Number of analog outputs	1
Analog current output	4...20
Max. load	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Measuring/setting range

Measuring range	[bar]	0...100
Set point SP	[bar]	1...100
Reset point rP	[bar]	0.5...99
In steps of	[bar]	0.5

Accuracy / deviations

Switch point accuracy	[% of the final value]	< ± 1,5
Repeatability	[% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the final value]	< ± 1,0
Temperature drift per 10 K		< ± 0.3

Reaction times

Switching frequency for a given set response time of one output	Response time [ms] (dAP)	3	6	10	17	30	60	125	250	500
	Switching frequency [Hz]	170	80	50	30	16	8	4	2	1
Response time	[ms]	at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %								
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50								
Max. response time analog output	[ms]	3								

Software / programming

Adjustment of the switch point	Programming button
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PE3022



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Parameter setting options	hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping
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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)

Mechanical data

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

Displays / operating elements

Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

