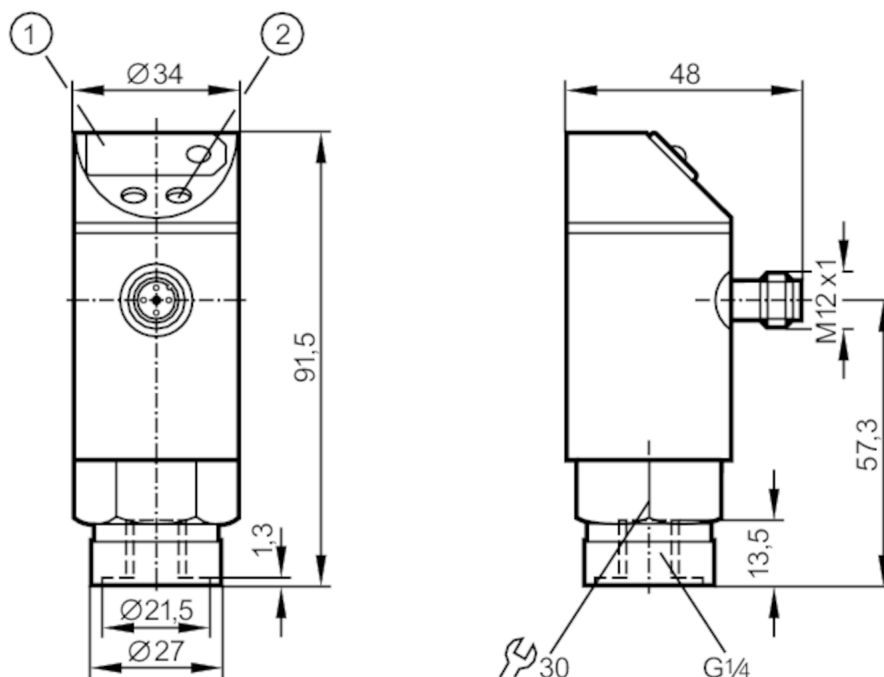


Pressure sensor with display

PE-400-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 analogue outputs: 1
Measuring range [bar]	0...400
Process connection	threaded connection G 1/4 internal thread

Application

Special feature	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]	1000
Pressure rating [bar]	600
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



Pressure sensor with display

PE-400-SBR14-KFPKG/US/ /E

Power-on delay time	[s]	0.2									
Integrated watchdog		yes									
Inputs / outputs											
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1									
Outputs											
Total number of outputs		2									
Output signal		switching signal; analogue signal; (configurable)									
Electrical design		PNP									
Number of digital outputs		1									
Max. voltage drop switching output DC	[V]	2									
Permanent current rating of switching output DC	[mA]	250									
Number of analogue outputs		1									
Analogue current output	[mA]	4...20									
Max. load	[Ω]	500									
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]	4...400									
Reset point rP	[bar]	2...398									
In steps of	[bar]	2									
Accuracy / deviations											
Switch point accuracy	[X16]	< ± 1,5									
Repeatability	[X16]	< ± 0,25; (with temperature fluctuations < 10 K)									
Characteristics deviation	[X16]	< ± 1,0									
Temperature drift per 10 K		< ± 0.3									
Response times											
Switching frequency for a given set response time of one output	Response time (dAP)	[ms]	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; switch point (SPx) = 70 %; reset point (rPx) = 30 %									
Delay time programmable dS, dr	[s]	0, 0,2,...10, 11,...50									
Max. response time analogue output	[ms]	3									
Software / programming											
Adjustment of the switch point		programming button									
Parameter setting options		hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping									

PE3020



Pressure sensor with display

PE-400-SBR14-KFPKG/US/ /E

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

Materials	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.
---------------	--------

Electrical connection

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



Connection

