

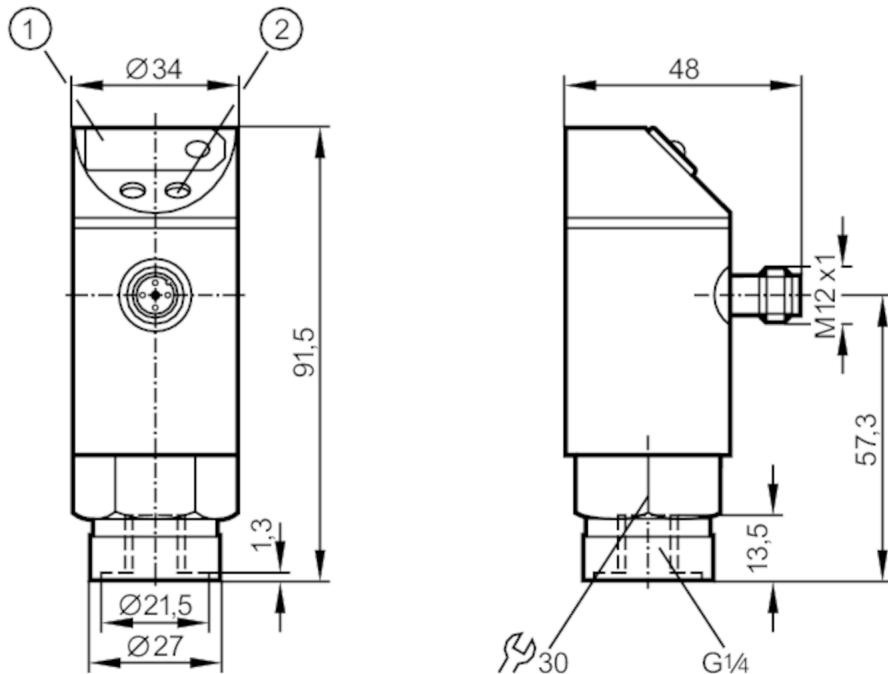
## Pressure sensor with display

PN-100-SBR14-LFPKG/US/ /V

Article no longer available - archive entry

Alternative articles: PN3002

When selecting an alternative article and accessories please note that technical data may differ!



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

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]	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
------------------	-----

**Pressure sensor with display**

PN-100-SBR14-LFPKG/US/ /IV

Reverse polarity protection	yes									
Power-on delay time [s]	0.2									
Integrated watchdog	yes									
<b>Inputs / outputs</b>										
Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1									
<b>Outputs</b>										
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 [V]	2									
Permanent current rating of switching output DC [mA]	250									
Number of analog outputs	1									
Analog voltage output [V]	0...10									
Min. load resistance [ $\Omega$ ]	2000									
Short-circuit protection	yes									
Type of short-circuit protection	yes (non-latching)									
Overload protection	yes									
<b>Measuring/setting range</b>										
Measuring range [bar]	0...100									
Set point SP [bar]	1...100									
Reset point rP [bar]	0.5...99.5									
In steps of [bar]	0.5									
<b>Accuracy / deviations</b>										
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									
<b>Reaction times</b>										
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; 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									

# PN9022



## Pressure sensor with display

PN-100-SBR14-LFPKG/US/ /IV

### 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)

### Mechanical data

Material	EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304)
Materials (wetted parts)	FKM; 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



## Pressure sensor with display

PN-100-SBR14-LFPKG/US/ /V

### Connection

