

PBS-AB1X6SG1SSNBMA0Z







Model Name> PBS-AB1X6SG1SSNBMA0ZPart No.> 6043445

# At a glance

- Measurement ranges from 0 ... 1 bar up to 0 ... 25 bar
- · No moving parts: No mechanical wear, fatigue-proof, maintenance-free
- · Stainless steel membrane
- · Various programmable switching functions
- Digital outputs PNP or NPN, Analog output signal 4 ... 20 mA or 0... 10 V
- Min/max pressure memory
- · Password protection
- · Selection of different pressure units for the display
- · IO-Link optional

## Your benefits

- Compact size takes up less space
- · Dual rotatable housing ensures flexible installation
- Quick and easy setup and operation due to three large buttons and bright display
- · Wide range of applications
- Resistant against corrosive media due to circularly welded, hermetically sealed stainless steel membrane
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- IO-Link technology provides time and cost savings by enabling parameter adjustments, for example, upon product changeover to be performed remotely



### Features

Display:

Medium:

Pressure type: Measuring range: Process temperature:

Output signal: Rotatable housing:

Gauge pressure: Absolute pressure: Compound pressure: Zero point adjustment:

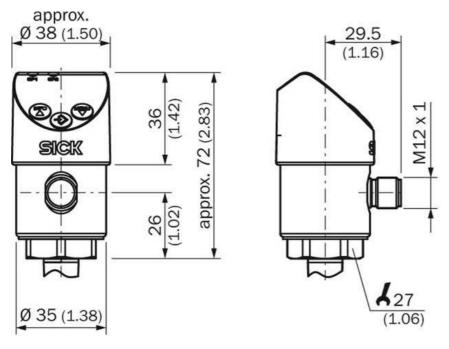
Absolute pressure
0 bar 1.6 bar
-20 °C +85 °C
14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180°, Update: 1,000, 500, 200, 100 ms (adjustable), Accuracy: ≤ 1 % of span ± 1 digit
1 x PNP + 4 mA 20 mA
Display against housing with electrical connection: 330 $^\circ,$ Housing against process connection: 320 $^\circ$
0 bar 1 bar up to bar 600 bar
0 bar 1 bar up to 0 bar 25 bar
-1 bar 0 bar up to -1 bar +24 bar
Max. + 3 % of span
Liquid and gaseous media



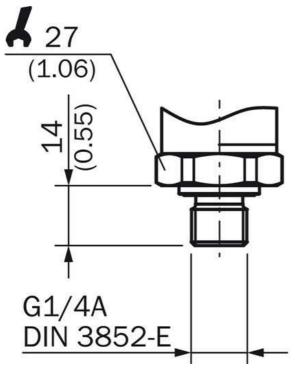


Accuracy:	≤ ± 1 % of span, (Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement according to IEC 61298 2))
Non-linearity:	$\leq$ ± 0.5 % (of span (Best Fit Straight Line, BFSL) according to IEC 61298-2)
Setting accuracy of switching outputs:	≤ ± 0.5 % of span
Response time:	3 ms
Long-term drift/one-year stability:	≤ 0.2 % of span according to IEC 61298-2
Temperature coefficient in rated temperature range:	Mean TC of span $\leq$ 0.2 % of span / 10 K, Mean TC of zero: $\leq$ 0.2% of span / 10 K
Rated temperature range:	0 °C +80 °C
Service life:	Minimum 100 Mio. life cycles
Mechanics/electronics	
Process connection:	G ¼ A according to DIN 3852-E
Wetted parts:	Pressure connection: stainless steel 316L, Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stainless steel 13-8 PH)
Seal:	NBR
Pressure port:	Standard
Housing material:	Display window: PC, Plastic head: PC + ABS, Buttons: TPE-E, Lower body: stainless steel 304
Enclosure rating:	IP 67
Electrical connection:	Round connector M12 x 1, 4-pin, IP 67
Power consumption:	45 mA (for configurations without analog output signal), 70 mA (for configurations with analog output signal)
Electrical safety:	Short-circuit protection: QA, Q1, Q2 towards M, Protection class: III, Overvoltage protection: 40 V DC, Reverse polarity protection: L+ towards M
Protection class III:	$\checkmark$
Weight sensor:	Ca. 200 g
Internal transmission fluid:	Silicone oil (only with pressure ranges < 0 bar 10 bar and $\leq$ 0 bar abs 25 bar abs)
Total current consumption:	Max. 350 mA/570 mA (incl. switching current)
Isolation voltage:	500 V DC
CE-conformity:	Pressure equipment directive: This instrument is a pressure accessory as defined by the directive 97/23/EC, EMC directive: 2004/108/EC, EN 61326-2-3
Ambient data	
Storage temperature:	-20 °C +80 °C
Ambient temperature:	-20 °C +80 °C

Ambient temperature: Shock load: Vibration load: Relative humidity: -20 °C ... +80 °C -20 °C ... +80 °C 50 g according to IEC 60068-2-27 (mechanical shock) 10 g according to IEC 60068-2-6 (vibration under resonance)  $\leq$  90 %



Dimensional drawing process connection



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