

PBS-RB060SG1SSNGMA0Z PBS



PRESSURE SWITCH

PBS-RB060SG1SSNGMA0Z | PBS

PRESSURE SWITCH



Ordering information

Туре	Part no.
PBS-RB060SG1SSNGMA0Z	6063638

Other models and accessories

www.sick.com/PBS

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	bar
Measuring range	0 bar 60 bar
Process temperature	-20 °C +85 °C
Maximum ohmic load R _A	4 mA 20 mA ($R_A \le 0.5$ kOhm) 0 V 10 V, 3-wire ($R_A > 10$ kOhm)
Zero point adjustment	Max. + 3 % of span
Output signal	1 x NPN + 4 mA 20 mA
Rotatable housing	Display against housing with electrical connection: 330 $^\circ$ Housing against process connection: 320 $^\circ$
Display	14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180° Accuracy: $\leq 1 \%$ of span ± 1 digit Update: 1,000, 500, 200, 100 ms (adjustable)
Mechanics /electronics	

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 stain- less steel 13-8 PH)	
Internal transmission fluid	Silicone oil (only with pressure ranges < 0 bar 10 bar and \leq 0 bar abs 25 bar abs)	
Pressure port	3.5 mm Standard	
Housing material	Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC	
Connection type	M12 round connector x 1, 4-pin	
Supply voltage	15 V DC 35 V DC	
Power consumption	45 mA (for configurations without analog output signal) 70 mA (for configurations with analog output signal)	
Total current consumption	Max. 350 mA / 570 mA (incl. switching current)	
Electrical safety	Protection class: III	

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	Overvoltage protection: 40 V DC Short-circuit protection: Q_A , Q_1 , Q_2 towards M Reverse polarity protection: L ⁺ to M
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 $61326-2-3$
Weight sensor	Approx. 200 g
Seal	NBR
Enclosure rating	IP67
Protection class III	✓
MTTF	202 years

Performance

Non-linearity	\leq \pm 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	$\leq \pm 1$ % of the span
Setting accuracy of switching outputs	$\leq \pm 0.5$ % of span
Response time	3 ms
Long-term drift/one-year stability	\leq 0.2 % of the span according to IEC 61298-2
Temperature coefficient in rated tempera- ture range	Mean TC of zero point: $\le 0.2\%$ of span / 10 K Mean TC of span $\le 0.2\%$ of span / 10 K
Rated temperature range	0 °C +80 °C
Service life	Minimum 100 Mio. load cycles

Ambient data

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

Classifications

eCl@ss 5.0	27200620
eCl@ss 5.1.4	27200620
eCl@ss 6.0	27200620
eCl@ss 6.2	27200620
eCl@ss 7.0	27200620
eCl@ss 8.0	27200620
eCl@ss 8.1	27200620
eCl@ss 9.0	27200620
eCl@ss 10.0	27200620
eCl@ss 11.0	27200620
eCl@ss 12.0	27200620
ETIM 5.0	EC000243
ETIM 6.0	EC000243
ETIM 7.0	EC000243

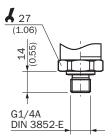
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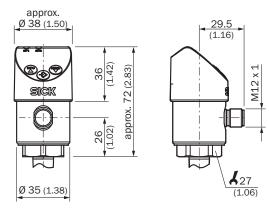
PRESSURE SWITCH

ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

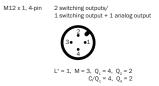
Dimensional drawing (Dimensions in mm (inch))

G ¼ A DIN 3852-E

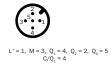




Connection type







Recommended accessories

Other models and accessories -> www.sick.com/PBS

	Brief description	Туре	Part no.
Mounting brac	kets and plates		
Fat	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501

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