

PBS-CB025SN1SS0CMA0G PBS



PRESSURE SWITCH

PBS-CB025SN1SS0CMA0G | PBS

PRESSURE SWITCH



Ordering information

Туре	Part no.
PBS-CB025SN1SS0CMA0G	6065392

Other models and accessories

www.sick.com/PBS

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Compound pressure
Pressure unit	bar
Measuring range	-1 bar 24 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 PNP + 0 V 10 V
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: ≤ 1 % of span ± 1 digit Update: 1,000, 500, 200, 100 ms (adjustable)
Specialty	Free from oil and grease

Mechanics/electronics

Process connection	1⁄4" NPT	
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)	

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Electrical safety	Protection class: III 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	Without seal		
Enclosure rating	IP67		
Protection class III	✓		
MTTF	333 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	≤ ± 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: \leq 0.2% of span / 10 K Mean TC of span \leq 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		

EC000243

EC000243

ETIM 5.0

ETIM 6.0

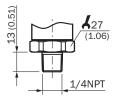
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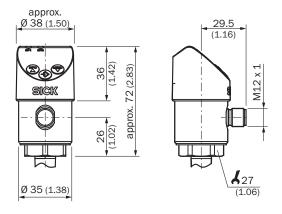
PRESSURE SWITCH

ETIM 7.0	EC000243
ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

Dimensional drawing (Dimensions in mm (inch))

1⁄4" NPT



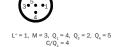


Connection type

M12 x 1, 4-pin 2 switching outputs/ 1 switching output + 1 analog output







Recommended accessories

Other models and accessories → www.sick.com/PBS

	Brief description	Туре	Part no.
Mounting brackets and plates			
Ta	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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