

PBS-RB1X0SG1SSNLMA0Z PBS



PRESSURE SWITCH

PBS-RB1X0SG1SSNLMA0Z | PBS

PRESSURE SWITCH



Ordering information

Туре	Part no.
PBS-RB1X0SG1SSNLMA0Z	6050369

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 1 bar
Process temperature	-20 °C +85 °C
Maximum ohmic load R _A	4 mA 20 mA ($R_A \le 0.5 \text{ kOhm}$) 0 V 10 V, 3-wire ($R_A > 10 \text{ kOhm}$)
Zero point adjustment	Max. + 3 % of span
Output signal	IO-Link/PNP + PNP
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)
Machanias (algotranias	

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

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Non-linearity≤ ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2Accuracy≤ ± 1% of the spanSetting accuracy of switching outputs≤ ± 0.5 % of spanResponse time3 msLong-term drift/one-year stability< 0.2 % of the span according to IEC 61298-2		
Electrical safety Protection class: III Over notage protection: 40 V DC Secondary protection: 1° to M Isolation voltage Soo V oC CE-conformity Pressure equipment directive: This instrument is a pressure accessory as defined by the directive 300 V DC Weight sensor Aprox. 200 g Seal NBR Enclosure rating P67 Protection class III Adaptation Aprox. 200 g Seal Enclosure rating P67 Protection class III Adaptation Aprox. 200 g Seal Protection class III Adaptation Mittr Adaptation Protection class III Seal (S K), of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Accuracy \$14.% of the span Seating accuracy of switching outputs \$2.0.5 % of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Request Unit Conception Int 20.2 % of the span according to IEC 61298-2 Seating To Tot Span (S C S Seating Tot	Power consumption	
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Ce-onformily Pressure equipment directive: This instrument is a pressure accessory as defined by the directive: 2004/108/tC, EN B1326-2-3 Weight sensor Approx. 200 g Sal Description of the approx. 200 g Enclosure rating IP67 Protection class III J MTF Old Para Contromation IP67 Personance IP67 Contromation IP67 Accuracy IP60 (Statistic Statistic Statis Statistic Statistic Statistic Statistic Statistic Sta	Electrical safety	Overvoltage protection: 40 V DC Short-circuit protection: Q_A , Q_1 , Q_2 towards M
Weight ensorHere 97/23/EC, EMC directive: 2004/108/EC, EN 613262-3Weight ensorApprox. 200 §SealMBREnclosure ratingHerPhotection class IIIJPhotection class IIIJMrthe349 versPorformanceSealSerting accuracy of switching output§ cl.5% of span (Best FI Straight Line, BFSL) according to EC 61298-2Response timeGol 5% of spanSetting accuracy of switching output§ cl.5% of spanResponse timeGol 5% of spanResponse time accuracy of switching output§ cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KResponse time accuracy of switching output% cl.2% of span / 10 KR	Isolation voltage	500 V DC
SealNREnclosure ratingPGProtection class IIIProtection class II<	CE-conformity	
Factors rating P67 Protection class III ✓ Protection class III ✓ MTTF 349 yars Performance Non-linearity < ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Accuracy ≤ ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Accuracy ≤ ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2 Carget midffy One-year stability ≤ ± 0.2 % of the span according to IEC 61298-2 Tamperature coefficient in rated temperature 3ma Carget midffy One-year stability < 0.2 % of the span according to IEC 61298-2 Tamperature coefficient in rated temperature 0 * 0 * 80 * 0 Service IIF Mannum 100 Mol. load cycles Arbitent temperature range -00 * 0 * 80 * 0 Sorig temperature -20 * 0 * 80 * 0 Rate temperature -20 * 0 * 80 * 0 Storage temperature -20 * 0 * 80 * 0 Vibration Ioad 10 gaccording to IEC 60068-2-27 (mechanical shock) Vibration Ioad 20 20 20 20 20 20 20 20 20 20 20 20 20 2	Weight sensor	Approx. 200 g
Protection class IIIImage: Protection class IIIProtection class III49 yersProferionance\$10 % of span (Best Fit Straight Line, BFSL) according to IEC 61298-2Accuracy\$4 10 % of spanSetting accuracy of switching outputs\$4 0.5 % of spanResponse time3 msImage: Straight Constraint of the span according to IEC 61298-2 % of span 10 %Temperature coefficient in rated temperatureWean TC of span 40.2 % of span 10 %Response time0 °C +80 °CTemperature coefficient in rated temperatureWean TC of span 40.2 % of span 10 %Reted temperature range0 °C +80 °CStraige temperature20 °C +80 °CStraige temperature90 % %Stock load50 gaccording to IEC 60068-2.27 (mechanical shock)Vibration Idod50 gaccording to IEC 60068-2.61 (mechanical shock)Vibration Idod50 gaccording to IEC 60068 (mechanical shock) <t< th=""><th>Seal</th><th>NBR</th></t<>	Seal	NBR
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Setting accuracy of switching outputs< 4.0.5 % of span	Non-linearity	\leq \pm 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Response time3 msLong-term drift/one-year stability5.0.2 % of the span according to IEC 61298-2Temperature coefficient in rated temperature true rangeMean TC of zero point: \$ 0.2% of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Mean TC of span \$ 0.2 % of span / 10 K Minum 100 Mio. load cyclesAndet temperature range0 * C +80 * C • C +80 * CAmbient tada-20 * C +80 * C • C +80 * CAmbient temperature-20 * C +80 * C • C +80 * CAndet temperature-20 * C +80 * CAnsite temperature-20 * C +80	Accuracy	≤ ± 1 % of the span
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Service lifeMinimum 100 Mio. load cyclesAmbient dataAmbient temperature-20 °C +80 °CStorage temperature-20 °C +80 °CRelative humidity≤ 90 %Shock load50 g according to IEC 60068-2-27 (mechanical shock)Vibration load0 g according to IEC 60068-2-27 (mechanical shock)Vibration load10 g according to IEC 60068-2-27 (mechanical shock)Classifications27200620ecless 5.027200620ecless 5.1.427200620ecless 6.027200620ecless 6.227200620ecless 6.227200620ecless 8.027200620ecless 8.127200620ecless 9.027200620ecless 9.027200620ecless 9.027200620ecless 10.027200620ecless 10.0 <t< th=""><th></th><td></td></t<>		
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Relative humidity≤ 90 %Shock load50 g according to IEC 60068-2-27 (mechanical shock)Vibration load10 g according to IEC 60068-2-6 (vibration under resonance)Classifications2700200ecless 5.02720020ecless 5.1.42720020ecless 6.02720020ecless 6.22720020ecless 6.22720020ecless 7.02720020ecless 8.02720020ecless 8.02720020ecless 9.02720020ecless 9.02720020ecless 9.02720020ecless 10.02720020ecless 11.02720020	Ambient temperature	-20 °C +80 °C
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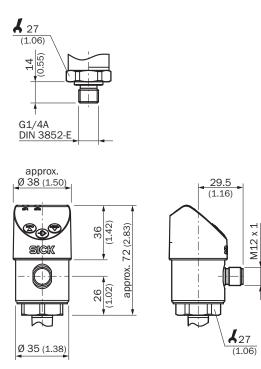
PBS-RB1X0SG1SSNLMA0Z | PBS

PRESSURE SWITCH

ETIM 5.0	EC000243
ETIM 6.0	EC000243
ETIM 7.0	EC000243
ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

Dimensional drawing (Dimensions in mm (inch))

G 1/4 A DIN 3852-E



Connection type

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

M12 x 1, 5-pin 2 switching outputs + 1 analog output





 $L^{+} = 1$, M = 3, $Q_{1} = 4$, $Q_{2} = 2$, $Q_{A} = 5$ $C/Q_{1} = 4$

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Recommended accessories

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

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

Recommended services

Additional services -> www.sick.com/PBS

	Туре	Part no.
Function Block Factory		
• Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found https://fbf.cloud.sick.com tar-get="_blank">https://fbf.cloud.sick.com tar-get="_blank">https://fbf.cloud.sick.com tar-get="_blank">https://fbf.cloud.sick.com tar-get="_blank"	Function Block Factory	On request

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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Online data sheet

