

PBS-RP3K0SN1SS0Q5A0Z PBS



PRESSURE SENSORS

PBS-RP3K0SN1SS0Q5A0Z | PBS

PRESSURE SENSORS



Ordering information

Туре	Part no.
PBS-RP3K0SN1SS0Q5A0Z	6071816

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

Illustration may differ



Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	psi
Measuring range	0 psi 3,000 psi
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 + 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

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	Round connector M12 x 1, 5-pin
Supply voltage	15 V DC 35 V DC

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45 mA (for configurations without analog output signal) 70 mA (for configurations with analog output signal)
Max. 350 mA / 570 mA (incl. switching current)
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
500 V DC
Pressure equipment directive: This instrument is a pressure accessory as defined by the direc- tive 97/23/EC, EMC directive: 2004/108/EC, EN 61326-2-3
Approx. 200 g
Without seal
IP67
4
202 years
\leq ± 0.5 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
≤ ± 1 % of the span
≤ ± 0.5 % of span
3 ms
\leq 0.2 % of the span according to IEC 61298-2
Mean TC of zero point: ≤ 0.2% of span / 10 K Mean TC of span ≤ 0.2 % of span / 10 K
0 °C +80 °C
Minimum 100 Mio. load cycles
-20 °C +80 °C
-20 °C +80 °C
-20 °C +80 °C ≤ 90 %
≤ 90 %
\leq 90 % 50 g according to IEC 60068-2-27 (mechanical shock)
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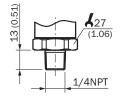
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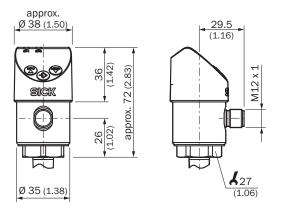
PRESSURE SENSORS

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

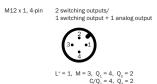
Dimensional drawing (Dimensions in mm (inch))

1⁄4" NPT





Connection type



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



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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 here. Note: You can configure your function block at > Function Block Factory.. Note: You can configure your function block at > Function Block Factory.. 	Function Block Factory	On request

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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

