

## PBS-RMX10SGESSOCMA0Z PBS



**PRESSURE SENSORS** 

### PBS-RMX10SGESS0CMA0Z | PBS

PRESSURE SENSORS



#### Ordering information

Туре	Part no.
PBS-RMX10SGESS0CMA0Z	6055294

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

Illustration may differ



#### Detailed technical data

Features	
Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	MPa
Measuring range	0 MPa 0.1 MPa
Process temperature	-20 °C +85 °C
Maximum ohmic load R <sub>A</sub>	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: $\leq 1$ % of span ± 1 digit Update: 1,000, 500, 200, 100 ms (adjustable)
Mechanics/electronics	
Process connection	G ½ B according to EN 837
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)
Wetted parts Internal transmission fluid	Pressure connection: stainless steel 316L Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stain-
	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	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) Silicone oil (only with pressure ranges < 0 bar 10 bar and ≤ 0 bar abs 25 bar abs)
Internal transmission fluid Pressure port	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) Silicone oil (only with pressure ranges < 0 bar 10 bar and ≤ 0 bar abs 25 bar abs) 3.5 mm Standard
Internal transmission fluid Pressure port Housing material	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) Silicone oil (only with pressure ranges < 0 bar 10 bar and ≤ 0 bar abs 25 bar abs) 3.5 mm Standard Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC
Internal transmission fluid Pressure port Housing material Connection type	Pressure connection: stainless steel 316L   Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stainless steel 13-8 PH)   Silicone oil (only with pressure ranges < 0 bar 10 bar and ≤ 0 bar abs 25 bar abs)   3.5 mm Standard   Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC   M12 round connector x 1, 4-pin
Internal transmission fluid Pressure port Housing material Connection type Supply voltage	Pressure connection: stainless steel 316L   Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stainless steel 13-8 PH)   Silicone oil (only with pressure ranges < 0 bar 10 bar and ≤ 0 bar abs 25 bar abs)   3.5 mm Standard   Lower body: stainless steel 304, Plastic head: PC + ABS, Buttons: TPE-E, Display window: PC   M12 round connector x 1, 4-pin   15 ∨ DC 35 ∨ DC   45 mA (for configurations without analog output signal)

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	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	$\leq$ ± 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	
ECLASS 5.0	27200620
ECLASS 5.1.4	27200620
ECLASS 6.0	27200620
ECLASS 6.2	27200620
ECLASS 7.0	27200620
ECLASS 8.0	27200620
ECLASS 8.1	27200620
ECLASS 9.0	27200620
ECLASS 10.0	27200620
ECLASS 11.0	27200620
ECLASS 12.0	27200620
ETIM 5.0	EC000243
ETIM 6.0	EC000243
ETIM 7.0	EC000243
ETIM 8.0	EC000243

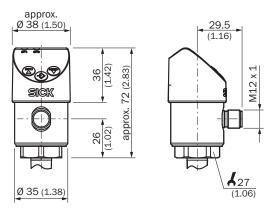
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PRESSURE SENSORS

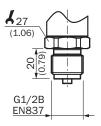
#### UNSPSC 16.0901

#### 41112409

#### Dimensional drawing (Dimensions in mm (inch))



G  $^{1\!\!/_2}$  B according to EN 837



#### Connection type









#### Recommended accessories

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

	Brief description	Туре	Part no.
Heating and c	ooling devices		
	Cooling element, extension of the process temperature up to 150 °C. Maximum ambient temperature 30 °C. Max. process pressure 200 bar. Not suitable for pressure measurement in steam. Outer thread G 1/2, inner thread G 1/2.	BEF-CE- G12G12-150C	5324393

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

## 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:

Contacts and other locations -www.sick.com



Online data sheet

