

# PBS-RMX10SM2SS0CMA0G PBS



**PRESSURE SENSORS** 

## PBS-RMX10SM2SS0CMA0G | PBS

PRESSURE SENSORS



### Ordering information

Туре	Part no.
PBS-RMX10SM2SS0CMA0G	6055297

Other models and accessories 

www.sick.com/PBS

Illustration may differ



#### Detailed technical data

#### Features

Medium	Liquid, gaseous	
Pressure type	Gauge pressure	
Pressure unit	МРа	
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 ° Housing against process connection: 320 °	
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)	
Specialty	Free from oil and grease	
Mechanics/electronics		
Process connection	M20 x 1.5	
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	

45 mA (for configurations without analog output signal) 70 mA (for configurations with analog output signal)

Max. 350 mA / 570 mA (incl. switching current)

**Total current consumption** 

**Power consumption** 

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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	1	
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	$\leq \pm 0.5$ % 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: $\leq 0.2\%$ 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	

EC000243

EC000243

ETIM 5.0

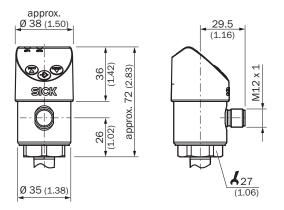
**ETIM 6.0** 

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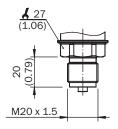
PRESSURE SENSORS

ETIM 7.0	EC000243
ETIM 8.0	EC000243
UNSPSC 16.0901	41112409

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







### Connection type



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





#### **Recommended accessories**

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

	Brief description	Туре	Part no.
Mounting brac	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

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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.

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