



# PBST-RB010SN1SSFQMA0Z

PBST

**PRESSURE SENSORS**

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	part no.
PBST-RB010SN1SSFQMA0Z	6088776

Other models and accessories → [www.sick.com/PBST](http://www.sick.com/PBST)

## Detailed technical data

### Features

<b>Medium</b>	Liquid, gaseous
<b>Pressure type</b>	Gauge pressure
<b>Pressure unit</b>	bar (can be switched to psi, MPa, kPa, mmH2O, mmHG, %)
<b>Measuring range</b>	0 bar ... 10 bar
<b>Process temperature</b>	-25 °C ... +100 °C
<b>Maximum ohmic load <math>R_A</math></b>	4 mA ... 20 mA ( $R_A \leq 0.5$ kOhm), 0 V ... 10 V, 3-wire ( $R_A > 10$ kOhm)
<b>Zero point adjustment</b>	Max. + 3 % of span
<b>Output signal</b>	Output 1 (pin 4): PNP/NPN/PP or IO-Link, Output 2 (pin 2): PNP/NPN/PP or analog 4...20 mA, 0...10 V, 1...10 V (each freely scalable up to max. 5:1)
<b>Rotatable housing</b>	Housing with display opposite process connection: 350°
<b>Display</b>	0.96" TFT color display with touch function (160 x 80 pixels)

### Mechanics/electronics

<b>Communication interface</b>	IO-Link
<b>Process connection</b>	1/4" NPT
<b>Wetted parts</b>	Process connection: 1.4404 stainless steel Measuring chamber: Al203 96% Seals: FPM/FKM
<b>Pressure port</b>	M5 internal thread for pressure spike restrictor
<b>Housing material</b>	Housing: 1.4301/1.4305 stainless steel, Display: glass, Display seal: PE
<b>Connection type</b>	M12 round connector x 1, 4-pin
<b>Supply voltage</b>	9 V DC ... 30 V DC

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

Power consumption	< 30 mA
Total current consumption	400 mA (max. 200 mA per output)
Electrical safety	Protection class: III Overvoltage protection: 32 V DC Short-circuit resistance: Yes Reverse polarity protection: Yes
CE-conformity	EMC Directive: 2014/30 / EU (EN 61326-1:2013; EN 61326-2-3:2013)
Weight sensor	Approx. 190 g
Seal	FKM
Enclosure rating	IP65 <sup>1)</sup> IP67 <sup>1)</sup> IP68 <sup>1)</sup>
Protection class III	✓
MTTF	478 years

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

Performance

Accuracy	≤ ± 0.5 %
Response time	< 3 ms
Long-term drift/one-year stability	≤ 0.1 % FS / K
Temperature coefficient in rated temperature range	+/- 1.5% FS (< 100 bar) +/- 2.5% (≥ 100 bar)
Rated temperature range	-25 °C ... +80 °C
Service life	100 million load cycles

Ambient data

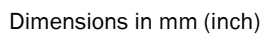
Ambient temperature, operation	-25 °C ... +80 °C
Storage temperature	-30 °C ... +85 °C
Relative humidity	≤ 90 %
Shock load	50 g, 11 ms, XYZ, according to DIN EN 60068-2-27
Vibration load	20 g, 10 Hz ... 2,000 Hz, XYZ, according to DIN EN 60068-2-6

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

## Certificates

## Dimensional drawing



## 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](http://www.sick.com)