



PBS2-RB4X0SG2SS0LMA0Z

PBS plus

PRESSURE SENSORS

SICK
Sensor Intelligence.

Power consumption	45 mA (for configurations without analog output signal) 70 mA (for configurations with analog output signal)
Total current consumption	Max. 600 mA (including switching current)
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	EMC Directive: 2014/30 / EU (EN 61326-1:2013; EN 61326-2-3:2013), Pressure equipment directive: 2014/68 / EU, Hazardous materials (RoHS): 2011/65 / EU (EN 50581:2012)
Weight sensor	Approx. 220 g
Seal	Without seal
Enclosure rating	IP67 ¹⁾ IP67 ¹⁾
Protection class III	✓
MTTF	104 years

¹⁾ 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

Non-linearity	≤ ± 0.25 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	≤ ± 0.5 % of the span
Setting accuracy of switching outputs	≤ ± 0.5 % of span
Response time	≤ 5 ms
Long-term drift/one-year stability	≤ ± 0.1 % of the span according to IEC 61298-2 ≤ 0.2 % of the span According to IEC 61298-2 for measuring range ≤ 0.6 bar or flush-mounted membrane (0 psi ... 10 psi)
Temperature coefficient in rated temperature range	Average TC of the zero point: ≤ ± 0.16% of the span / 10 K Average TC of the span ≤ ± 0.16% of the 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 ... +70 °C
Relative humidity	≤ 75 %
Shock load	50 g, 6 ms according to IEC 60068-2-27 (mechanical shock)
Vibration load	20 g, 10 Hz ... 2,000 Hz (IEC 60068-2-6, at resonance)

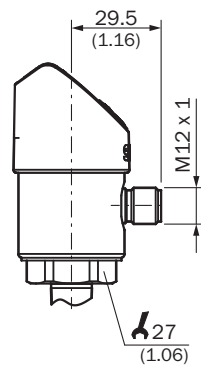
Classifications

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
UNSPSC 16.0901	41112409

Dimensional drawing (Dimensions in mm (inch))

G ¼ female EN 837



Connection type

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



L⁺ = 1, M = 3, Q₁ = 4, Q₂ = 2
C/Q₁ = 4, Q_A = 2

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



L⁺ = 1, M = 3, Q₁ = 4, Q₂ = 2, Q_A = 5
C/Q₁ = 4

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