

PBS-RB010SG2SS0LMA0Z





SICKSensor Intelligence.

Pressure sensors

Model Name > PBS-RB010SG2SS0LMA0Z

Part No. > 6041418



At a glance

- Gauge measurement ranges from 0 ... 1 bar up to 0 ... 600 bar
- · No moving parts: No mechanical wear, fatigue-proof, maintenance-free
- · Stainless steel membrane
- Various programmable switching functions
- Digital outputs PNP or NPN, Analog output signal 4 ... 20 mA or 0 ... 10 V
- · Min/max pressure memory
- Password protection
- Selection of different pressure units for the display
- · IO-Link optional

Your benefits

- Quick and easy setup and operation due to three large pushbuttons and clear display
- Perfect display readability and optimal cable routing due to rotatable housing
- · No compromises: Individual solutions through a variety of configurations
- · Universal application due to fully welded, highly durable stainless steel membrane
- Saves space and costs: no adapters required due to broad range of standard process connections
- Highly reliable due to application of proven technologies and high-quality materials, water resistance according to IP 65 and IP 67 as well as excellent overpressure safety
- Ultimate system availability: IO-Link enables fast, reliable parameter setting when changing over products



Illustration may differ

(E Dus No IO-Link

Features

Pressure type: Gauge pressure
Measuring range: 0 bar ... 10 bar
Process temperature: -20 °C ... 85 °C

CE-conformity:

Display: 14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180°, Update: 1000, 500, 200, 100 ms (adjustable), accuracy: ≤ 1.0 % of

span ± 1 digit

Output signal: IO-Link, 2x PNP

Rotatable housing: Display against housing with electrical connection: 330°. Housing against

process connection: 320°

Performance

≤ +/- 1 % (of span) Accuracy:

≤ +/- 0.5 % (of span (Best Fit Straight Line, BFSL) according to IEC Non-linearity:

61298-2)

Setting accuracy of switching outputs: \leq ± 0.5 % of span

Response time: 3 ms

Long-term drift/one-year stability: ≤ 0.2 % of span

Mean TC of span: ≤ 0.2 % of span/10 K, Mean TC of zero: ≤ 0.2% of Temperature coefficient in rated temperature range:

span/10 K

Rated temperature range: 0 °C ... 80 °C

Service life: 10 Mio. max. life cycles

Mechanics/electronics

Process connection: G 1/4 female

Wetted parts: Pressure Connection: 316L, Pressure sensor: 316L (for measurement

ranges from 0 bar ... 10 bar rel: 13-8 PH)

Seal:

Display window: PC, Plastic head: PC + ABS, Buttons: TPE-E, Lower Housing material:

body: 316L

IP 67 Enclosure rating:

Connection type: Plug M12 x 1, 4-pin, IP 67 15 V DC ... 35 V DC Supply voltage:

100 mA Power consumption:

Short-circuit protection: QA, Q1, Q2 towards M, Protection class: III, Overvoltage protection: 40 V DC, Reverse polarity protection: L+ towards Electrical safety:

Μ

Protection class III: Weight sensor: 200 g

Total current consumption: Max. 350 mA/600 mA (incl. switching current)

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/EEC, EN

61326-2-3

Ambient data

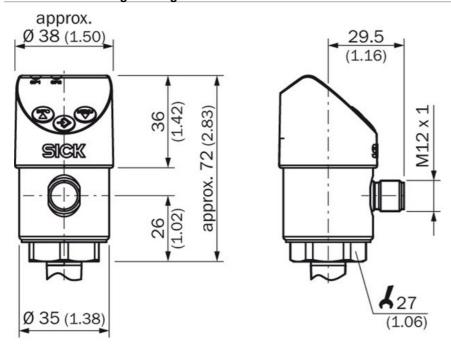
-20 °C ... 80 °C Storage temperature: Ambient temperature: -20 °C ... 80 °C

Shock load: 50 g according to IEC 60068-2-27 (mechanical shock)

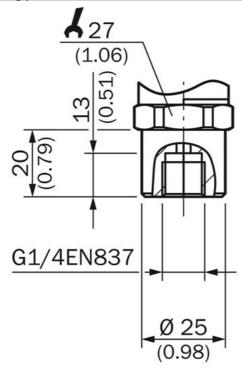
Vibration load: 10 g according to IEC 60068-2-6 (vibration under resonance)

90 % Relative humidity:

Dimensional drawing housing



Dimensional drawing process connection



M12 x 1, 4-pin

2 switching outputs/ 1 switching output + 1 analog output





L* = 1, M = 3, Q_1 = 4, Q_2 = 2, Q_A = 5 |4| C/Q1: With IO-Link: Communication/ switching output 1 |5| Q2: Switching output 2

|1| L+: Positive supply connection

|2| M: Negative supply connection

|3| Q1: Switching output 1

|6| QA: Analog output

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