

PBS-RB040SG1SSNPMA0Z





Pressure sensors



Model Name > PBS-RB040SG1SSNPMA0Z

Part No. > 6042519

↑ P → ↓

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

- · Compact size takes up less space
- · Dual rotatable housing ensures flexible installation
- · Quick and easy setup and operation due to three large buttons and bright display
- · Wide range of applications
- Resistant against corrosive media due to circularly welded, hermetically sealed stainless steel membrane
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- IO-Link technology provides time and cost savings by enabling parameter adjustments, for example, upon product changeover to be performed remotely



Product may differ from illustration

CE Use PG O IO-Link

Features

Pressure type: Gauge pressure

Measuring range: 0 bar ... 40 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 + 0...10 V

DIV09: Measuring ranges

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

process connection: 320°

Performance

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

61298-2)

≤ +/- 1 % of span Accuracy of sensor element: Setting accuracy of switching outputs: \leq ± 0.5 % of span

Response time: 3 ms

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

Temperature error: \leq 1.0 % of span typ., \leq 2.5 % of span max.

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

span/10 K

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

Service life: 10 Mio. max. life cycles

Mechanics/electronics

Process connection: G 1/4 A according to DIN 3852-E

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 Supply voltage: 15 V DC ... 35 V DC

Power consumption: 100 mA

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

Silicone oil (only with pressure ranges < 0 bar ... 10 bar and ≤ 0 bar abs ... Internal transmission fluid:

25 bar abs)

Pressure peak dampening: Through optional integrated pressure port 0.6 mm or 0.3 mm for process

connector G 1/4 according to DIN 3852-E (0.3 mm from 10 bar)

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

500 V DC Isolation voltage:

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

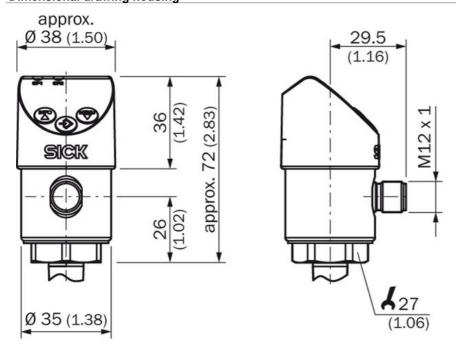
-20 °C ... 80 °C Storage temperature: -20 °C ... 80 °C Ambient temperature:

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

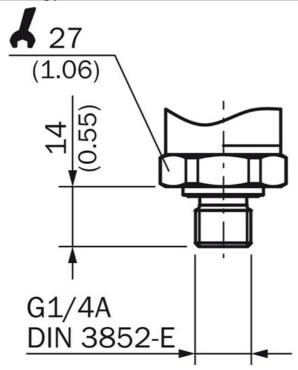
Vibration load: 10 g according to IEC 60068-2-6 (vibration under resonance)

Relative humidity: 90 %

Dimensional drawing housing



Dimensional drawing process connection



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