

PBS-RB400SG2SS0BMA0Z







Model Name> PBS-RB400SG2SS0BMA0ZPart No.> 6041019

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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



Features

| Pressure type: | Gauge pressure |
|------------------------|--|
| Measuring range: | 0 bar 400 bar |
| Process temperature: | -20 °C +85 °C |
| Display: | 14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180°, Update: 1,000, 500, 200, 100 ms (adjustable), Accuracy: \leq 1 % of span ± 1 digit |
| Output signal: | 1 x PNP + 4 mA 20 mA |
| Rotatable housing: | Display against housing with electrical connection: 330 $^\circ,$ Housing against process connection: 320 $^\circ$ |
| Gauge pressure: | 0 bar 1 bar up to bar 600 bar |
| Absolute pressure: | 0 bar 1 bar up to 0 bar 25 bar |
| Compound pressure: | -1 bar 0 bar up to -1 bar +24 bar |
| Zero point adjustment: | Max. + 3 % of span |
| | |

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Illustration may differ

| Performance | |
|-------------|--|
|-------------|--|

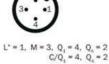
| Performance | |
|---|--|
| Accuracy: | ≤ ± 1 % of span, (Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement according to IEC 61298 2)) |
| Non-linearity: | \leq ± 0.5 % (of span (Best Fit Straight Line, BFSL) according to IEC 61298-2) |
| Setting accuracy of switching outputs: | ≤ ± 0.5 % of span |
| Response time: | 3 ms |
| Long-term drift/one-year stability: | ≤ 0.2 % of span according to IEC 61298-2 |
| Temperature coefficient in rated temperature range: | Mean TC of span \leq 0.2 % of span $/$ 10 K, Mean TC of zero: \leq 0.2% of span $/$ 10 K |
| Rated temperature range: | 0 °C +80 °C |
| Service life: | Minimum 100 Mio. life cycles |
| Mechanics/electronics | |
| Process connection: | G ¼ female |
| Wetted parts: | Pressure connection: stainless steel 316L, Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stainless steel 13-8 PH) |
| Seal: | Without seal |
| Pressure port: | Standard |
| Housing material: | Display window: PC, Plastic head: PC + ABS, Buttons: TPE-E, Lower body: stainless steel 304 |
| Enclosure rating: | IP 67 |
| Electrical connection: | Round connector M12 x 1, 4-pin, IP 67 |
| Power consumption: | 45 mA (for configurations without analog output signal), 70 mA (for configurations with analog output signal) |
| Electrical safety: | Short-circuit protection: QA, Q1, Q2 towards M, Protection class: III, Overvoltage protection: 40 V DC, Reverse polarity protection: L+ towards M |
| Protection class III: | \checkmark |
| Weight sensor: | Ca. 200 g |
| Internal transmission fluid: | Silicone oil (only with pressure ranges < 0 bar 10 bar and \leq 0 bar abs 25 bar abs) |
| Total current consumption: | Max. 350 mA/570 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/EC, EN 61326-2-3 |
| Ambient data | |
| Storage temperature: | -20 °C +80 °C |

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|----------------------|---|
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| 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 % |
| | |

Connection type

M12 x 1, 4-pin

2 switching outputs/ 1 switching output + 1 analog output

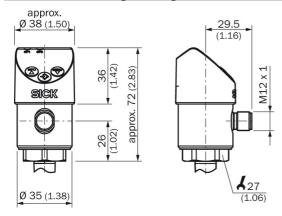


M12 x 1, 5-pin 2 switching outputs + 1 analog output

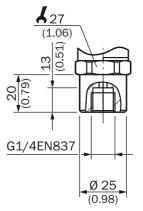


|1| L+: Positive supply connection |2| M: Negative supply connection |3| Q1: Switching output 1 L* = 1, M = 3, $Q_1 = 4$, $Q_2 = 2$, $Q_A = 5$ $C/Q_1 = 4$ |4| C/Q1: With IO-Link: Communication/ switching output 1 |5| Q2: Switching output 2 |6| QA: Analog output

Dimensional drawing housing



Dimensional drawing process connection



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