



## Pressure sensors Pressure transmitter

PBT-CB010SG1SSNAMA0Z



**Model Name** > **PBT-CB010SG1SSNAMA0Z**  
**Part No.** > **6038693**



*Product may differ  
from illustration*

#### At a glance

- Compound pressure measurement ranges from -1 ... 0 bar up to -1... +24 bar
- A large variety of available process connections
- No moving parts: No mechanical wear, fatigue-proof, maintenance-free
- Circularly welded, hermetically sealed stainless steel membrane
- Output signal 4 ... 20 mA, 0 ... 5 V or 0 ... 10 V
- Electrical connection M12x1, L-connector acc. to DIN 175301-803 A or flying leads

#### Your benefits

- Compact size takes up less space
- Simple and cost-saving installation
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- Robust design enables higher reliability
- Excellent price/performance ratio



#### Features

|                      |                   |
|----------------------|-------------------|
| Pressure type:       | Compound pressure |
| Measuring range:     | -1 bar ... 9 bar  |
| Process temperature: | 0 °C ... 80 °C    |
| CE-conformity:       | ✓                 |
| Output signal:       | 4...20 mA         |

#### Performance

|                                     |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Accuracy:                           | ≤ +/- 1 % (of span)                                               |
| Non-linearity:                      | ± 0.5 % ((Best Fit Straight Line, BFSL) according to IEC 61298-2) |
| Response time:                      | < 4 ms                                                            |
| Long-term drift/one-year stability: | ≤ 0.1 % of span according to IEC 61298-2                          |
| Rated temperature range:            | 0 °C ... 80 °C                                                    |
| Service life:                       | 10 Mio. max. life cycles                                          |
| Non-repeatability:                  | ≤ 0.1 % of span                                                   |
| Adjustment accuracy of zero signal: | ≤ 0.5 typ., 0.8 % max. % of span                                  |
| Hysteresis:                         | ± 0.16 % <sup>1)</sup>                                            |
| Signal noise:                       | ≤ 0.3 % of span                                                   |

<sup>1)</sup> Of span

## Mechanics/electronics

---

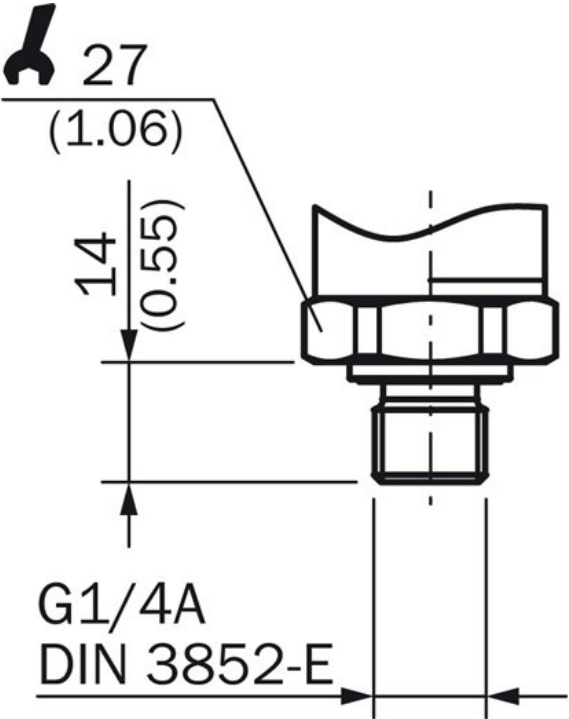
|                       |                                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:                 | NBR                                                                                                                                                                                                                    |
| Pressure port:        | Standard                                                                                                                                                                                                               |
| Housing material:     | 316L                                                                                                                                                                                                                   |
| Enclosure rating:     | IP 67                                                                                                                                                                                                                  |
| Connection type:      | M12 x 1, 4-pin, IP 67                                                                                                                                                                                                  |
| Supply voltage:       | 8 V DC ... 30 V DC                                                                                                                                                                                                     |
| Power consumption:    | Max. 8 mA for voltage output signal, Signal current (max. 25 mA) for current output                                                                                                                                    |
| Electrical safety:    | Short-circuit protection: QA towards M, Reference conditions: According to IEC 61298-1, Protection class: III, Overvoltage protection: 32 V DC, 36 V DC with 4 mA ... 20 mA, Reverse polarity protection: L+ towards M |
| Protection class III: | ✓                                                                                                                                                                                                                      |
| Weight sensor:        | Ca. 80 g                                                                                                                                                                                                               |
| Isolation voltage:    | 500 V DC <sup>1)</sup>                                                                                                                                                                                                 |
| CE-conformity:        | Pressure equipment directive: 97/23/EC, EMC directive: 2004/108/EEC, EN 61326-2-3                                                                                                                                      |

<sup>1)</sup> For power supply use a circuit with energy limitation (EN/UL/IEC 61010-1. section 9.3) with the following maximum values for the current: L+ = 30 V (DC): 5 A. Provide a separate switch for the external power supply. Alternative for North America: The connection may also be made to "Class 2 Circuits" or "Class 2. Power Units" according to CEC (Canadian Electrical Code) or NEC (National Electrical Code)

## Ambient data

---

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Storage temperature: | 0 °C ... 80 °C                                                             |
| Ambient temperature: | 0 °C ... 80 °C                                                             |
| Shock load:          | 500 g according to IEC 60068-2-27 (mechanical shock)                       |
| Vibration load:      | 10 g according to IEC 60068-2-6 (vibration under resonance), 20 g optional |
| Relative humidity:   | 45 % ... 75 %                                                              |



**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)