

PBT-CB1X0SGTSSNAMA0Z







# Pressure sensors Pressure transmitter

Model Name > PBT-CB1X0SGTSSNAMA0Z

Part No. > 6044095





Illustration may differ

## 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:

Measuring range:

Process temperature:

O °C ... +80 °C

Output signal:

Compound pressure

-1 bar ... 0 bar

0 °C ... +80 °C

4 mA ... 20 mA

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

Medium: Liquid and gaseous media

### Performance

Accuracy:  $\leq \pm 0.6 \%$  of Span (with non-linearity 0.25 % and with signal output 0 ... 5

V),  $\leq$  ± 1 % of span (with non-linearity 0.25 %),  $\leq$  ± 1,0 % of Span (with non-linearity 0.5 %), (Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement according to IEC 61298-

2))

Non-linearity: ≤ ± 0.5 % ((Best Fit Straight Line, BFSL) according to IEC 61298-2)

Response time: < 4 m

Long-term drift/one-year stability: ≤ 0.1 % of span according to IEC 61298-2

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

Service life: Minimum 100 Mio. life cycles

Non-repeatability: ≤ 0.1 % of span

Hysteresis: ≤ 0.16 % of span Signal noise: ≤ 0.3 % of span

≤ 0.5 % of span typ., ≤ 0.8 % of span max. (with non-linerarity 0.5 %) Adjustment accuracy of zero signal:

#### Mechanics/electronics

Process connection: G ¼ A according to DIN 3852-E

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: **NBR** Pressure port: Standard

Stainless steel 316L Housing material:

Enclosure rating: **IP 67** 

Electrical connection: Round connector M12 x 1, 4-pin, IP 67

Power consumption: Max. 8 mA for voltage output signal, Signal current (max. 25 mA) for

current output

Short-circuit protection: QA towards M, Protection class: III, Overvoltage protection: 32 V DC, 36 V DC with 4 mA  $\dots$  20 mA, Reverse polarity protection: L+ towards M Electrical safety:

Protection class III:

Weight sensor: Ca. 80 q

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

25 bar abs)

Isolation voltage: 500 V DC

CE-conformity: Pressure equipment directive: 97/23/EC, EMC directive: 2004/108/EC, EN

61 326-2-3

Reference conditions: Reference conditions: According to IEC 61298-1

Electrical circuit in accordance with section 9.3 of UL/EN/IEC 61010-1 or an LPS to UL/EN/ IEC 60950-1 or class 2 in accordance with UL1310/UL1585 (NEC or CEC).

The power supply must be suitable for operation above 2,000 m should the pressure transmitter be used at this altitude.;

#### **Ambient data**

-20 °C ... +80 °C Storage temperature: Ambient temperature: 0 °C ... +80 °C

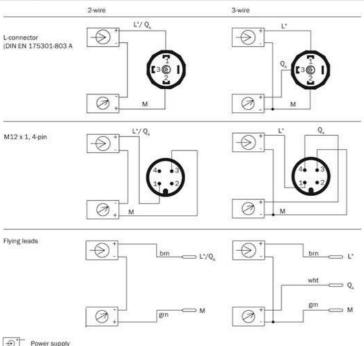
Shock load: 500 g according to IEC 60068-2-27 (mechanical shock)

Vibration load: 10 g according to IEC 60068-2-6 (vibration under resonance), 20 g

optional

45 % ... 75 % Relative humidity:

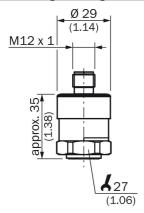
# Connection type



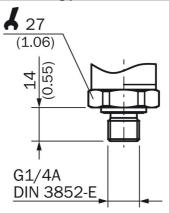
Power supply

Doad

# **Dimensional drawing housing**



# **Dimensional drawing process connection**



Australia

Phone +61 3 9457 0600 1800 33 48 02 - 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 marketing@sick.com.br

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

Česká 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 info@sick.de

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

Phone +91-22-4033 8333

E-Mail info@sick-india.com

Israel

Phone +972-4-6881000

E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41

E-Mail info@sick.it

Phone +81 (0)3 5309 2112

E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680

E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44

E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00

E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120

E-Mail office@sick.ro

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 sales.gsg@sick.com

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

Phone +358-9-25 15 800

E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00

E-Mail info@sick.se

Phone +886 2 2375-6288

E-Mail sales@sick.com.tw

Phone +90 (216) 528 50 00

E-Mail info@sick.com.tr

**United Arab Emirates** 

Phone +971 (0) 4 88 65 878

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

