

Pressure sensors Pressure transmitter

PBT-CB4X0AG1SSNAMA0Z







Model Name> PBT-CB4X0AG1SSNAMA0ZPart No.> 6039858



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:	Compound pressure
Measuring range:	-1 bar 3 bar
Process temperature:	0 °C +80 °C
Output signal:	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:	$\leq \pm 0.5$ % of span (with non-linearity 0.25 %), $\leq \pm 0.6$ % of Span (with non- linearity 0.25 % and with signal output 0 5 V), $\leq \pm 1,0$ % 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:	≤ ± 0.25 % ((Best Fit Straight Line, BFSL) according to IEC 61298-2)
Response time:	< 4 ms

≤ 0.1 % of span according to IEC 61298-2

Response time: Long-term drift/one-year stability: Rated temperature range: Service life: Non-repeatability:

© SICK AG. Subject to change without notice.

0 °C ... +80 °C

≤ 0.1 % of span

Minimum 100 Mio. life cycles

3/22/2015 6:36:19 PM

Hysteresis: Signal noise: Adjustment accuracy of zero signal: ≤ 0.16 % of span
≤ 0.3 % of span
≤ 0.15 % of span typ., ≤ 0.4 % of span max. (with non-linerarity 0.25 %)

### **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
Housing material:	Stainless steel 316L
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
Electrical safety:	Short-circuit protection: QA towards M, 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:	$\checkmark$
Weight sensor:	Ca. 80 g
Internal transmission fluid:	Silicone oil (only with pressure ranges < 0 bar 10 bar and $\leq$ 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

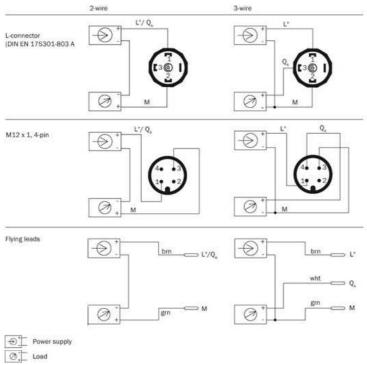
Electrical circuit in accordance with section 9.3 of UL/EN/IEC 61010-1 or an LPS to UL/EN/ IEC 60950-1 or class 2 in accordance with UL1310/UL1585 (NEC or CEC).

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

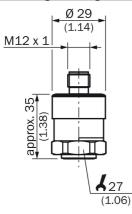
## Ambient data

Storage temperature:	-20 °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 %

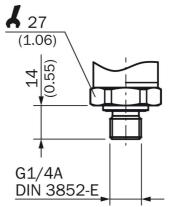
# **Connection type**



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

#### Canada

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

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 +972-4-6881000 E-Mail info@sick-sensors.com Italia

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

Japan 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 E-Mail sick@sick.no Österreich Phone +43 (0)22 36 62 28 8-0 E-Mail office@sick.at Polska Phone +48 22 837 40 50

Phone +47 67 81 50 00

Norge

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 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

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 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

