



Pressure sensors
Pressure transmitter

PET-1RB010G1NSAMA



Model Name > **PET-1RB010G1NSAMA**
Part No. > **6049221**



Illustration may differ

At a glance

- Measuring ranges from 0 bar ... 6 bar up to 0 bar ... 600 bar
- Various output signals and electrical connections available
- Common process connections available
- High overpressure safety. Pressure peak protection available upon request for selected process connections.
- Circularly welded, hermetically sealed stainless steel membrane
- Stainless steel housing with enclosure rating up to IP 67 (with round connector M12 x 1)

Your benefits

- A wide range of variants enables a perfect match to individual requirements
- Space-saving due to its compact size
- Time-saving due to quick and simple installation
- Manufacturing capabilities that are aligned to OEM demands ensure an excellent price-performance ratio for application-specific solutions
- Wetted parts are made from stainless steel for universal use even with a large variety of corrosive fluids

50 Stück Sammelverpackung



Features

Pressure type:	Gauge pressure
Measuring range:	0 bar ... 10 bar
Process temperature:	-30 °C ... +100 °C
Output signal:	4 mA ... 20 mA, 2-wire
Maximum ohmic load RA:	≤ (L+ - 7 V)/0.02 A [Ohm] with current output signal
Initialization time:	15 ms

Performance

Accuracy:	≤ ± 1.2 % of span (at room temperature)
Non-linearity:	≤ ± 0.6 % of span (best fit straight line, BFSL)
Response time:	< 2 ms
Long-term drift/one-year stability:	≤ ± 0.3 % of span (per year)
Temperature error:	≤ ± 1.5 % of span
Rated temperature range:	0 °C ... +80 °C
Service life:	Minimum 100 Mio. life cycles

Measurement deviation of zero signal: $\leq \pm 0.7\%$ of span

Mechanics/electronics

Process connection:	G ¼ A according to DIN 3852-E
Wetted parts:	Stainless steel 13-8 PH, Stainless steel 316L
Seal:	NBR
Pressure port:	3.5 mm Standard
Housing material:	Stainless steel 316L, PBT GF30
Enclosure rating:	IP 67 (according to IEC 60529), for round connector ¹⁾
Electrical connection:	Round connector M12 x 1, 4-pin
Supply voltage:	8 V DC ... 30 V DC ²⁾
Isolation voltage:	750 V DC
CE-conformity:	2004/108/EC, EN 61326-1 emission (group 1, class B) and interference immunity (industrial application) and pressure equipment directive 97/23/EC
Reference conditions:	According to IEC 61298-1
Maximum power consumption:	25 mA (signal current, maximum 25 mA)
Protection class:	III
Overvoltage protection:	36 V DC
Short-circuit protection:	Output QA towards M
Reverse polarity protection:	L+ towards M
RoHS certificate:	✓

¹⁾ The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating. ²⁾

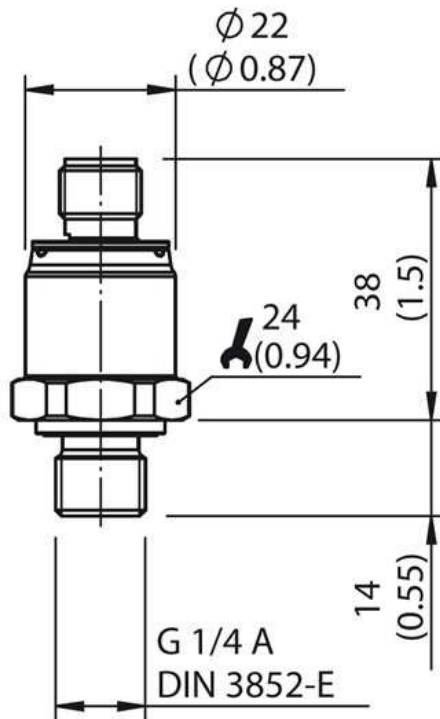
Electrical circuit in accordance with section 9.3 of UL/EN/IEC 61010-1 or an LPS to UL/EN/ IEC 60950-1 or class 2 in accordance with UL1310/UL1585 (NEC or CEC).

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

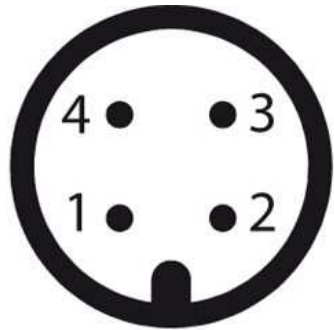
Ambient data

Storage temperature:	-30 °C ... +100 °C
Shock load:	40 g (6 ms) according to IEC 60068-2-27 (mechanical shock)
Vibration load:	20 g (20 Hz ... 2000 Hz, 120 min) according to IEC 60068-2-6 (vibration at resonance)
Ambient temperature operation:	-30 °C ... +100 °C

Dimensional drawing



Connection type



- |1| L+: Positive supply connection
- |2| M: Negative supply connection
- |3| QA: Analog output

Assignment	L +	M	Q _A
2-wire	1	3	-
3-wire	1	3	4

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

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

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 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