



PET-1RB400G20SAMA

PET

PRESSURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
PET-1RB400G20SAMA	6068327

Other models and accessories → www.sick.com/PET

Detailed technical data

Features

Medium	Fluids
Pressure type	Gauge pressure
Pressure unit	bar
Measuring range	0 bar ... 400 bar
Overpressure safety	2-fold (3-fold upon request)
Process temperature	-30 °C ... +100 °C
Maximum ohmic load R_A	= $(U - 7 \text{ V}) / 0.02 \text{ A}$ [ohm] for current output signal
Output signal	4 mA ... 20 mA, 2-wire
Initialization time	15 ms
Pieces per package	50 pieces

Mechanics/electronics

Communication interface	-
Process connection	G ¼ female (EN 837)
Wetted parts	Process connection: 316L stainless steel Measuring chamber: stainless steel 13-8 PH
Pressure port	Standard
Housing material	Stainless steel 316L, PBT GF30
Connection type	M12 round connector x 1, 4-pin
Supply voltage	8 V DC ... 30 V DC ¹⁾
Power consumption	25 mA (signal current, maximum 25 mA)
Ex-approvals	2004/108/EC, EN 61326-1 emission (group 1, class B) and interference immunity (industrial application) and pressure equipment directive 97/23/EC
Seal	Without seal
Enclosure rating	IP67 (IEC 60529) ²⁾
MTTF	> 100 years

¹⁾ The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.

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

Protection class	III
Isolation voltage	750 V DC
Overvoltage protection	36 V DC
Short-circuit protection	Output Q _A towards M
Reverse polarity protection	L ⁺ towards M

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Performance

Non-linearity	≤ ± 0.5 %, of span (best fit straight line, BFSL)
Accuracy	≤ ± 1.2 %, of span (at room temperature)
Adjustment accuracy of zero signal	≤ ± 0.5 % of the span
Response time	< 2 ms
Long-term drift/one-year stability	≤ ± 0.3 % of span (per year)
Rated temperature range	0 °C ... +80 °C
Service life	Minimum 10 Mio. load cycles
Temperature error	≤ ± 1.5 % of the span
Reference conditions	According to IEC 61298-1

Ambient data

Ambient temperature, operation	-30 °C ... +100 °C
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)

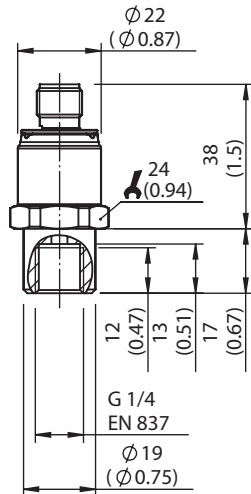
Classifications

ECLASS 5.0	27200614
ECLASS 5.1.4	27200614
ECLASS 6.0	27200614
ECLASS 6.2	27200614
ECLASS 7.0	27200614
ECLASS 8.0	27200614
ECLASS 8.1	27200614
ECLASS 9.0	27200614
ECLASS 10.0	27200614
ECLASS 11.0	27200614
ECLASS 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

Certificates

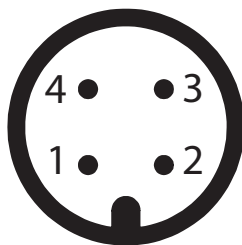
EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓

Dimensional drawing Process connection G 1/4 female according to EN 837 with round connector M12 x 1, 4-pin



Dimensions in mm (inch)

Connection type M12 round connector x 1, 4-pin



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

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

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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