

PET-1CB010G1NSXMA

PET

PRESSURE SENSORS





Ordering information

| Туре | Part no. |
|-------------------|----------|
| PET-1CB010G1NSXMA | 6071290 |

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

Illustration may differ



Detailed technical data

Features

| Pressure type | Compound pressure |
|---------------------|--------------------------|
| Measuring range | -1 bar 9 bar |
| Process temperature | -30 °C +100 °C |
| Output signal | 0.5 V 4.5 V, 3-conductor |
| Pieces per package | 50 pieces |

Mechanics/electronics

| Process connection | G ¼ A according to DIN 3852-E |
|-----------------------------------|--|
| Seal | NBR |
| Wetted parts | Stainless steel, stainless steel 13-8 PH |
| Pressure port | 3.5 mm Standard |
| Housing material | Stainless steel 316L, PBT GF30 |
| Connection type | M12 round connector x 1, 4-pin |
| Enclosure rating | IP67, for round connector (IEC 60529) 1) |
| Supply voltage | 8 V DC 30 V DC ²⁾ |
| Maximum ohmic load R _A | > QA, max / 1 mA [ohm] for current output signal |
| Maximum power consumption | 5 mA |
| Initialization time | 15 ms |
| 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 |
| CE-conformity | 2004/108/EC, EN 61326-1 emission (group 1, class B) and interference immunity (industrial application) and pressure equipment directive $97/23/EC$ |

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

²⁾ 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.

| RoHS certificate | ✓ |
|------------------|-----------------------------|
| Service life | Minimum 10 Mio. load cycles |
| MTTF | > 100 years |

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

Performance

| Non-linearity | \leq ± 0.6 % of span (best fit straight line, BFSL) |
|--------------------------------------|---|
| Accuracy | \leq ± 1.2 % of span (at room temperature) |
| Response time | < 2 ms |
| Measurement deviation of zero signal | \leq ± 0.7 % of the span |
| Temperature error | \leq ± 1.5 % of the span |
| Long-term drift/one-year stability | ≤ ± 0.3 % of span (per year) |
| Rated temperature range | 0 °C +80 °C |
| 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) |

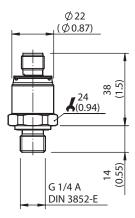
Classifications

| 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 |

²⁾ 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.

Dimensional drawing (Dimensions in mm (inch))

Process connection G 1/4 A according to DIN 3852-E with round connector M12 x 1, 4-pin



Connection type

M12 round connector x 1, 4-pin



| Assignment | L+ | М | Q _A |
|------------|----|---|----------------|
| 2-wire | 1 | 3 | - |
| 3-wire | 1 | 3 | 4 |

- ① L⁺: Positive supply connection
- ② M: Negative supply connection

Recommended accessories

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

| | Brief description | Туре | Part no. |
|--------|---|------------------------|----------|
| Others | | | |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 020UB3XLEAX | 2095607 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 050UB3XLEAX | 2095608 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 100UB3XLEAX | 2095609 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 150UB3XLEAX | 2095610 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 200UB3XLEAX | 2095611 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A14- 250UB3XLEAX | 2095615 |
| | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 020UB3XLEAX | 2095766 |
| | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 050UB3XLEAX | 2095767 |
| 3 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 100UB3XLEAX | 2095768 |

| | Brief description | Туре | Part no. |
|------|---|------------------------|----------|
| 7 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 150UB3XLEAX | 2095769 |
| | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 200UB3XLEAX | 2095770 |
| | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A14- 250UB3XLEAX | 2095771 |
| A.C. | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF2A14- 020VB3XLEAX | 2096234 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF2A14- 050VB3XLEAX | 2096235 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF2A14- 100VB3XLEAX | 2096236 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF2A14- 150VB3XLEAX | 2096237 |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF2A14- 200VB3XLEAX | 2096238 |
| 5 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG2A14- 020VB3XLEAX | 2095895 |
| 3 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG2A14- 050VB3XLEAX | 2095897 |

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| 3 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG2A14- 100VB3XLEAX | 2095898 |
| 3 | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 15 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG2A14- 150VB3XLEAX | 2096213 |
| *** | Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 20 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG2A14- 200VB3XLEAX | 2096214 |

SICK AT A GLANCE

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For us, that is "Sensor Intelligence."

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