PTAC-1XXXX88ABMZB

PTA

PRESSURE SENSORS

SICK
Sensor Intelligence.

PTAC-1XXXX88ABMZB | PTA

PRESSURE SENSORS

Ordering information

Type	part no.
PTAC-1XXXX88ABMZB	6089739

Other models and accessories ➜ www.sick.com/PTA

Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	bar psi
Measuring chamber type	Ceramic pressure measuring cell
Measuring range	0 bar ... 0.1 bar 0 psi ... 1.45 bar
Process temperature	–20 °C ... +130 °C [1]
Maximum ohmic load R_A	$R_A < (L+ - 12) / 0.022$ A (Ohm)
Output signal	4 mA ... 20 mA, 2-wire

[1] Up to +150 °C for short periods (max. 15 min).

Mechanics/electronics

Communication interface	-
Process connection	G ¼ A (ISO1179-2)
Wetted parts	Stainless steel 316L (1.4404)
Housing material	Stainless steel 316L (1.4404), PBT/PC
Connection type	M12 round connector x 1, 4-pin
Supply voltage	12 V DC ... 35 V DC
Electrical safety	Overvoltage protection: 36 V DC Short-circuit resistance: All outputs to E Reverse polarity protection: L^+ to M Protection class: III
Dielectric strength	500 V AC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)

[1] Emission: Class B/Immunity: Industrial area.

[2] VP2/A.

[3] Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

CE-conformity	EMC Directive: 2014/30 / EU, EN 61326-1, EN 61326-2-3:2013, 2014/53 / EU [1]
Weight sensor	Approx. 250 g
Seal	FKM [2]
Enclosure rating	IP66 [3] IP67 [3] IP69 [3]
Protection class III	✓
MTTF	156 years

[1] Emission: Class B/Immunity: Industrial area.

[2] VP2/A.

[3] Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

Performance

Accuracy	≤ ± 0.3 %, of the span
Response time (10 % ... 90 %)	≤ 6 ms
Long-term drift/one-year stability	< 0.35 % p.a.
Temperature coefficient in rated temperature range	< 0.15% / 10 K
Rated temperature range	0 °C ... +100 °C 32 °F ... 212 °F
Service life	Minimum 10 Mio. load cycles

Ambient data

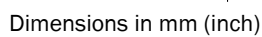| Ambient temperature, operation	–40 °C ... +80 °C –40 °F ... 176 °F
Storage temperature	–40 °C ... +80 °C –40 °F ... 176 °F
Shock load	Class 6M4 according to IEC60721-3-6 (50 g; 2.3 ms)
Vibration load	Class 4M8 according to IEC60721-3-4 (5 g, 4 Hz ... 200 Hz)

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Food contact material manufacturer declaration	✓

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

Dimensional drawing

Dimensions in mm (inch)

Connection type

① Power supply /
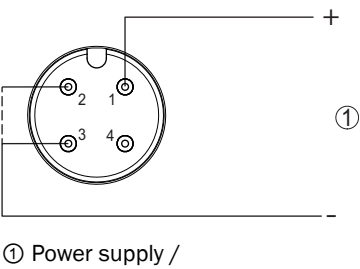
SICK AT A GLANCE

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."

WORLDWIDE PRESENCE:

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