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DATA SHEET

PTAM-1XXXXTJOMAB

PTA
Pressure sensors

SICK Sensor Intelligence



Illustration may differ

PRESSURE SENSORS

PTAM-1XXXXTJOMAB

ORDERING INFORMATION

Type	part no.
PTAM-1XXXXTJOMAB	6091874

Further device versions and accessories at www.sick.com/PTA

DETAILED TECHNICAL DATA

FEATURES

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Pressure unit	bar psi
Measuring chamber type	Metallic pressure measuring cell
Measuring range	0 bar ... 600 bar 0 psi ... 8,700 psi
Process temperature	–20 °C ... +130 °C [1]
Maximum ohmic load R_A	R_A < (L+ - 12) / 0.022 A (Ohm)
Output signal	IO-Link, 3-wire, 2x transistor or 4 ... 20 mA plus 1x transistor

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

MECHANICS/ELECTRONICS

Communication interface	IO-Link, Bluetooth
Process connection	G ¼ B (EN 837)
Wetted parts	Process connection: 316L stainless steel
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)
Weight sensor	Approx. 250 g

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

Enclosure rating	IP66 [1] IP67 [1] IP69 [1]
Protection class III	✓
MTTF	156 years

[1] 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	< 0.1 % 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

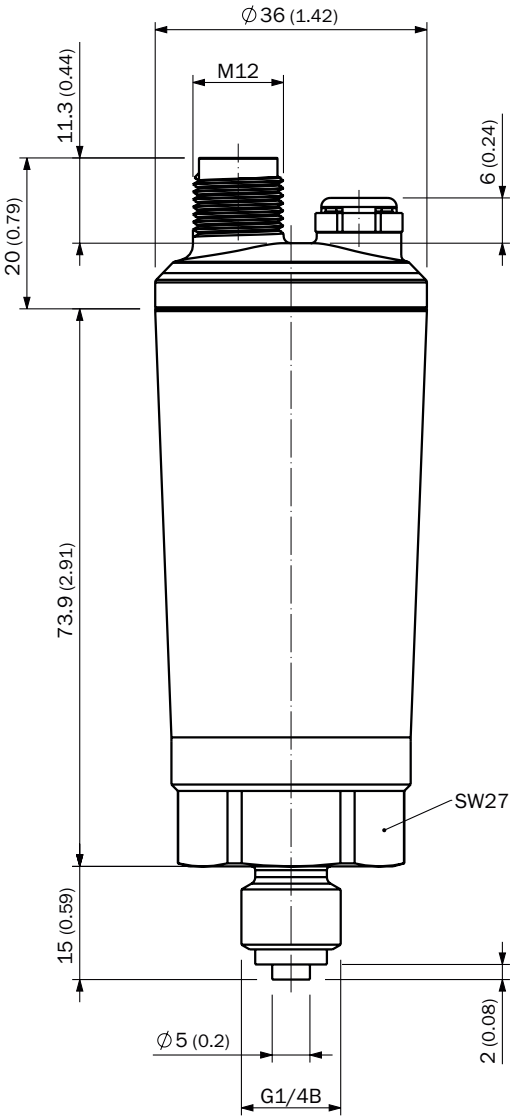
AMBIENT DATA

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

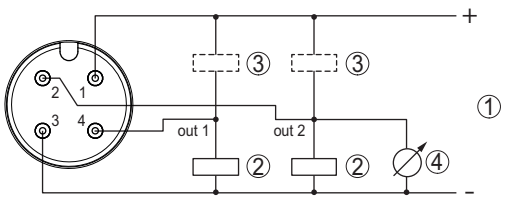
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓
IO-Link certificate	✓
Food contact material manufacturer declaration	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

CONNECTION TYPE



① Power supply
② PNP
③ NPN
④ Current output

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6091874

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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