



PTAC-1XXXAVAFMAB

PTA

PRESSURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
PTAC-1XXXXAVAFMAB	6091644

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 ... 5 bar 0 psi ... 72 psi
Process temperature	-20 °C ... +130 °C ¹⁾
Maximum ohmic load R_A	370 Ω, at supply voltage U _B = 12 V DC 630 Ω, at supply voltage U _B = 18 V DC
Output signal	4 mA ... 20 mA, IO-Link, transistor, 3-wire

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

Mechanics/electronics

Communication interface	IO-Link, Bluetooth
Process connection	Clamp 1" (DIN 32676, ISO 2852), PN 40, flush-mounted, 316L (Ra < 0.38 μm)
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

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.

	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)
CE-conformity	EMC Directive: 2014/30 / EU, EN 61326-1, EN 61326-2-3:2013, 2014/53 / EU ¹⁾
Ex-approvals	Ex-free area (CE, UKCA, RCM, c-UL-us, EAC)
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	< 0.1 % 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

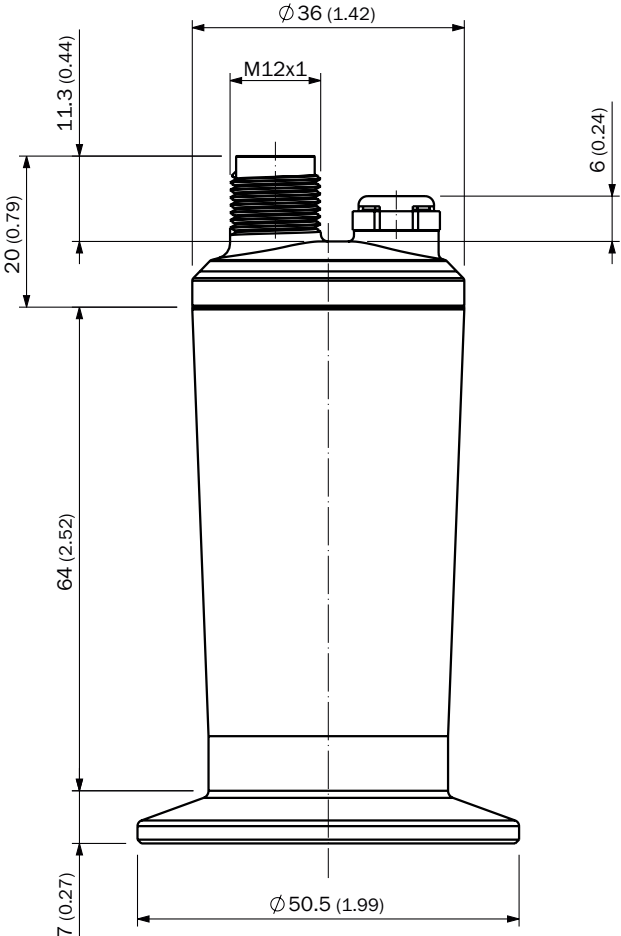
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
IO-Link certificate	✓
Food contact material manufacturer declaration	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

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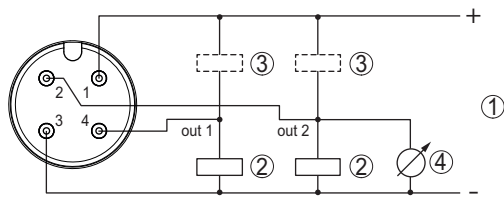
ECLASS 5.1.4	27200614
ECLASS 6.0	27200614
ECLASS 6.2	27200614
ECLASS 7.0	27200614
ECLASS 8.0	27200614
ECLASS 8.1	27200614
ECLASS 9.0	27200614
ECLASS 10.0	27200614
ECLASS 11.0	27200614
ECLASS 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

Dimensional drawing



Dimensions in mm (inch)

Connection type



- ① Power supply
- ② PNP
- ③ NPN
- ④ Current 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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com