

# PBT-AP030AG1NSNV2C0Z

PBT

**PRESSURE SENSORS** 





#### Ordering information

Туре	Part no.
PBT-AP030AG1NSNV2C0Z	6077863

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

Illustration may differ



#### Detailed technical data

#### **Features**

Medium	Liquid, gaseous
Pressure type	Absolute pressure
Pressure unit	psi
Measuring range	0 psi 30 psi
Process temperature	0 °C +80 °C
Maximum ohmic load R <sub>A</sub>	4 mA 20 mA, 2-wire ( $R_A \le (L^+ - 8 \text{ V}) / 0.02 \text{ A [Ohm]}$ ) 0 V 10 V, 3-wire ( $R_A > 10 \text{ kOhm}$ ) 0 V 5 V, 3-wire ( $R_A > 5 \text{ kOhm}$ )
Output signal	0 V 10 V, 3-wire
Specialty	Without

#### Mechanics/electronics

Process connection	G ¼ A according to DIN 3852-E
Wetted parts	Pressure Connection: stainless steel 316L Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stainless steel 13-8 PH)
Internal transmission fluid	Silicone oil (only with pressure ranges < 0 bar 10 bar and $\leq$ 0 bar abs 25 bar abs)
Pressure port	0.3 mm pressure port
Housing material	Stainless steel
Connection type	Flying leads, 2 m
Supply voltage	14 V DC 30 V DC <sup>1)</sup>
Power consumption	Signal current (max. 25 mA) for current output Max. 8 mA for voltage output signal
Electrical safety	Overvoltage protection: 32 V DC, 36 V DC with 4 mA 20 mA Short-circuit protection: $Q_A$ towards M Reverse polarity protection: $L^+$ to M Protection class: III
Isolation voltage	500 V DC

<sup>1)</sup> 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.

<sup>2)</sup> 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	Pressure equipment directive: 2014/68/EU EMC directive: 2014/30/EU, EN 61 326-2-3
Weight sensor	Approx. 80 g
Seal	NBR
Enclosure rating	IP67 <sup>2)</sup>
Protection class III	✓
Reference conditions	Reference conditions: According to IEC 61298-1
MTTF	1,176 years

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

#### Performance

Non-linearity	$\leq$ ± 0.25 %, of the span	
Accuracy	$\leq$ ± 0.5 % of the span	
Adjustment accuracy of zero signal	$\leq 0.15~\%$ of span typ., $\leq 0.4~\%$ of span max. (with non-linerarity 0.25 %)	
Hysteresis	≤ 0.16 % of the span	
Non-repeatability	≤ 0.1 % of the span	
Response time	< 4 ms	
Signal noise	≤ 0.3 % of the span	
Long-term drift/one-year stability	≤ 0.1 % of span to IEC 61298-2	
Rated temperature range	0 °C +80 °C	
Service life	Minimum 100 Mio. load cycles	

#### Ambient data

Ambient temperature	0 °C +80 °C
Storage temperature	-40 °C +70 °C
Relative humidity	45 % 75 %
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	10 g according to IEC 60068-2-6 (vibration under resonance) 20 g optional

#### 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

sure rating.

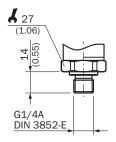
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PRESSURE SENSORS

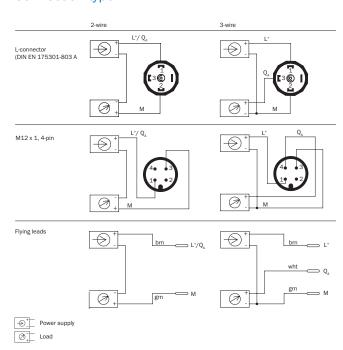
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

## Dimensional drawing (Dimensions in mm (inch))

G 1/4 A DIN 3852-E



## Connection type



#### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
For	Mounting bracket for simple and stable wall mounting of pressure sensors with 27 mm hexagon, Aluminum	BEF-FL-ALUPBS-HLDR	5322501

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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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