



PBT-AB2X5SU1SEFV5C0Z

PBT

PRESSURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
PBT-AB2X5SU1SEFV5C0Z	6063628

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

Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Absolute pressure
Pressure unit	bar
Measuring range	0 bar ... 2.5 bar
Process temperature	-30 °C ... +100 °C
Output signal	0 V ... 10 V, 3-wire
Specialty	Without

Mechanics/electronics

Process connection	7/16"-20 UNF SAE #4 J514 external with O-ring boss (FKM)
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 ≤ 0 bar abs ... 25 bar abs)
Pressure port	, Standard
Housing material	Stainless steel
Connection type	Flying leads, 5 m, IP67
Supply voltage	8 V DC ... 30 V DC with output signal 4 mA ... 20 mA and 0 V ... 5 V 14 V DC ... 30 V DC with output signal 0 V ... 10 V 14 V DC ... 30 V DC ¹⁾
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
CE-conformity	Pressure equipment directive: 2014/68/EU, EMC directive: 2014/30/EU, EN 61 326-2-3
Weight sensor	Approx. 80 g

¹⁾ 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.

Seal	FPM/FKM
Enclosure rating	IP67
Protection class III	✓
Reference conditions	Reference conditions: According to IEC 61298-1
MTTF	1,176 years

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Performance

Non-linearity	≤ ± 0.5 %, of the span
Accuracy	≤ ± 1 % of the span
Adjustment accuracy of zero signal	≤ 0.5 % of span typ., ≤ 0.8 % of span max. (with non-linearity 0.5 %)
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. life cycles

Ambient data

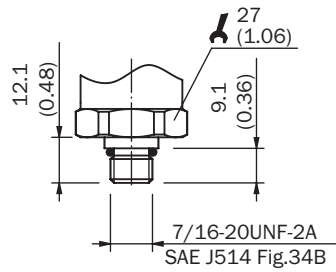
Ambient temperature	0 °C ... +80 °C
Storage temperature	-40 °C ... +70 °C
Relative humidity	45 % ... 75 %
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	10 g according to IEC 60068-2-6 (vibration under resonance) 20 g optional

Classifications

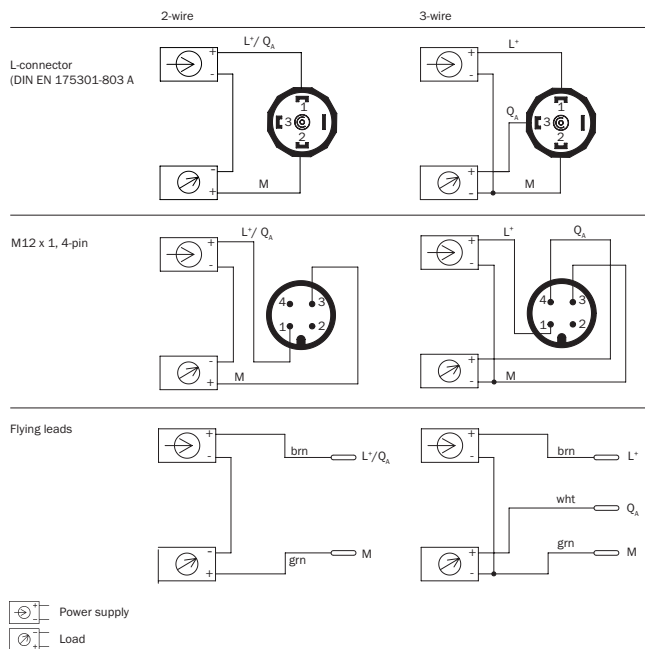
ECI@ss 5.0	27200614
ECI@ss 5.1.4	27200614
ECI@ss 6.0	27200614
ECI@ss 6.2	27200614
ECI@ss 7.0	27200614
ECI@ss 8.0	27200614
ECI@ss 8.1	27200614
ECI@ss 9.0	27200614
ECI@ss 10.0	27200614
ECI@ss 11.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
UNSPSC 16.0901	41112410

Dimensional drawing (Dimensions in mm (inch))

7/16" -20 UNF



Connection type



Recommended accessories

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

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

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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