

PBT-CBX25AG4SFSV2COZ

PBT

PRESSURE TRANSMITTER





Ordering information

Туре	Part no.
PBT-CBX25AG4SFSV2C0Z	6084760

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

Illustration may differ





Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Compound pressure
Pressure unit	bar
Measuring range	-0.25 bar 0 bar
Process temperature	-20 °C +100 °C
Maximum ohmic load R _A	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 1/4 B according to DIN 837		
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, 2 m		
Supply voltage	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		

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.

²⁾ 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	Stainless steel
Enclosure rating	IP67 ²⁾
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 rating classes.

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

eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
eCl@ss 6.0	27200614
eCl@ss 6.2	27200614
eCl@ss 7.0	27200614
eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614

sure rating.

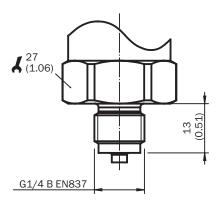
PBT-CBX25AG4SFSV2C0Z | PBT

PRESSURE TRANSMITTER

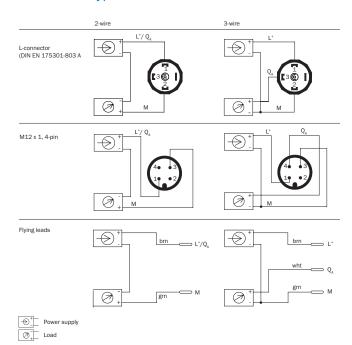
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

Dimensional drawing (Dimensions in mm (inch))

G 1/4 B EN 837



Connection type



Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
Par 1	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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