

PET-1RB250G1NSVLC

PET

PRESSURE TRANSMITTER





Ordering information

Туре	Part no.
PET-1RB250G1NSVLC	6075709

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

Illustration may differ



Detailed technical data

Features

Pressure type	Gauge pressure
Measuring range	0 bar 250 bar
Process temperature	-30 °C +100 °C
Output signal	0 V 10 V, 3-wire
Pieces per package	50 pieces

Mechanics/electronics

Process connection	G ¼ A according to DIN 3852-E		
Seal	NBR		
Wetted parts	Stainless steel, stainless steel 13-8 PH		
Pressure port	3.5 mm Standard		
Housing material	Stainless steel 316L, PBT GF30		
Connection type	For angled plug according to DIN EN 175301-803 A (without mating connector)		
Enclosure rating	IP65, for L-connector (IEC 60529) 1)		
Supply voltage	14 V DC 30 V DC ²⁾		
Maximum ohmic load R _A	> QA, max / 1 mA [ohm] for current output signal		
Maximum power consumption	5 mA		
Initialization time	15 ms		
Protection class	III		
Isolation voltage	750 V DC		
Overvoltage protection	36 V DC		
Short-circuit protection	Output Q _A towards M		
Reverse polarity protection	L ⁺ towards M		
CE-conformity	2004/108/EC, EN 61326-1 emission (group 1, class B) and interference immunity (industrial application) and pressure equipment directive $97/23/EC$		

¹⁾ The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

²⁾ 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.

RoHS certificate	✓
Service life	Minimum 10 Mio. load cycles
MTTF	> 100 years

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Performance

Non-linearity	$\leq \pm~0.5~\%$ of span (best fit straight line, BFSL)		
Accuracy	\leq ± 1.2 % of span (at room temperature)		
Response time	< 2 ms		
Measurement deviation of zero signal	\leq ± 0.5 % of the span		
Temperature error	≤ ± 1.5 % of the span		
Long-term drift/one-year stability	\leq ± 0.3 % of span (per year)		
Rated temperature range	0 °C +80 °C		
Reference conditions	According to IEC 61298-1		

Ambient data

Ambient temperature, operation	-30 °C +100 °C
Storage temperature	-30 °C +100 °C
Shock load	40 g (6 ms) according to IEC 60068-2-27 (mechanical shock)
Vibration load	20 g (20 Hz 2000 Hz, 120 min) according to IEC 60068-2-6 (vibration at resonance)

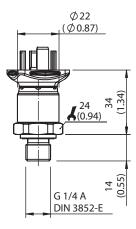
Classifications

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

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Dimensional drawing (Dimensions in mm (inch))

Process connection G 1/4" A to DIN 3852-E with connection for angled plug to DIN EN 175301-803 A



Connection type

Connection for angled plug according to DIN EN 175301-803 A



Assignment	L+	М	Q _A
2-wire	1	2	-
3-wire	1	2	3

- ① L⁺: Positive supply connection
- ② M: Negative supply connection
- ③ Q_A: Analog output

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