

# PBT-RP015SN1SSOALAOZ



**PRESSURE SENSORS** 

PRESSURE SENSORS



#### Ordering information

Туре	Part no.
PBT-RP015SN1SS0ALA0Z	6052953

Other models and accessories -> www.sick.com/PBT





### Detailed technical data

#### Features

Medium	Liquid, gaseous
Pressure type	Gauge pressure
Measuring range	0 psi 15 psi
Process temperature	0 °C +80 °C
Output signal	4 mA 20 mA, 2-wire
Specialty	Without design specifics
Mechanics/electronics	

Process connection	1⁄4" NPT
Wetted parts	Pressure Connection: stainless steel 316L Pressure sensor: stainless steel 316L (for measurement ranges from 0 bar 10 bar rel stain- less 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	, Standard
Housing material	Stainless steel 316L
Connection type	L-connector acc. to DIN 175301-803 A, IP65
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 8 V DC 30 V DC $^{\rm 1)}$
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
Seal	Without seal

<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.

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Enclosure rating	IP65
Protection class III	$\checkmark$
Reference conditions	Reference conditions: According to IEC 61298-1
MTTF	815 years

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#### Performance

Non-linearity	$\leq$ $\pm$ 0.5 %, (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	$\leq \pm 1$ % of the span
Adjustment accuracy of zero signal	$\leq 0.5~\%$ of span typ., $\leq 0.8~\%$ of span max. (with non-linerarity 0.5 %)
Hysteresis	$\leq$ 0.16 % of the span
Non-repeatability	$\leq$ 0.1 % of the span
Response time	< 4 ms
Signal noise	$\leq$ 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

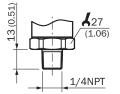
#### Classifications

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
ETIM 5.0	EC002476
ETIM 6.0	EC002476
UNSPSC 16.0901	41112410

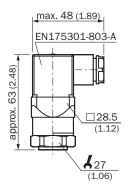
PRESSURE SENSORS

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

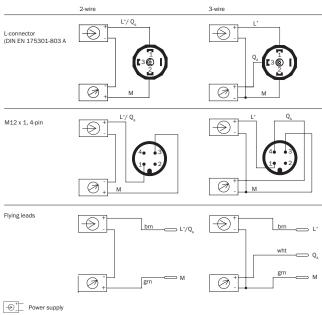
1⁄4" NPT



Housing with L-connector (DIN 175301-803 A), IP65



#### Connection type



\_\_\_\_\_ Load

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### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brac	kets and plates		
Fait	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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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



Online data sheet

