

# PHT-RB1X0SD50S0AMS0Z



**PRESSURE TRANSMITTER** 

## PHT-RB1X0SD50S0AMS0Z | PHT

PRESSURE TRANSMITTER



## Ordering information

Туре	Part no.
PHT-RB1X0SD50S0AMS0Z	6062563

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





### Detailed technical data

#### Features

Medium	Liquid, gaseous		
Pressure type	Gauge pressure		
Pressure unit	bar		
Measuring range	0 bar 1 bar		
Process temperature	-20 °C +150 °C		
Maximum ohmic load R <sub>A</sub>	4 mA 20 mA, 2-wire ( $R_A \le (L^+ - 10 \text{ V}) / 0.02 \text{ A}$ [Ohm]) The variant with field housing and current output 4 mA 20 mA features test terminals that allow metering of the signal current without having to disconnect the device.the signal current without having to disconnect the device. 0 V 10 V, 3-wire ( $R_A > 10 \text{ kOhm}$ ) 0 V 5 V, 3-wire ( $R_A > 5 \text{ kOhm}$ )		
Output signal	4 mA 20 mA, 2-wire		
EHEDG approval	✓		

### Mechanics/electronics

Process connection	Clamp (DIN 32676) DN 50		
Wetted parts	Stainless steel 1.4435		
Internal transmission fluid	Synthetic oil, FDA approved		
Housing material	Stainless steel 1.4571		
Connection type	M12 round connector x 1, 4-pin		
Supply voltage	10 V DC 30 V DC		
Electrical safety	Overvoltage protection: 36 V DC Short-circuit protection: $Q_A$ towards M Reverse polarity protection: L <sup>+</sup> to M Protection class: III		
Dielectric strength	500~V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)		
CE-conformity	EMC directive: 2004/108/EC, EN 61326-2-3		
Weight sensor	Approx. 500 g		

<sup>1)</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.

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Seal	Without seal
Enclosure rating	IP67 <sup>1)</sup>
Protection class III	$\checkmark$
MTTF	403 years

<sup>1)</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.

#### Performance

Non-linearity	$\leq$ $\pm$ 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2		
Accuracy	$\leq$ ± 0.5 % of the span		
Non-repeatability	$\leq$ ± 0.1 % of the span		
Response time (10 % 90 %)	≤ 10 ms		
Long-term drift/one-year stability	$\leq$ 0.2 % of the span		
Temperature coefficient in rated tempera- ture range	Mean TC of zero: $\leq 0.2\%$ of span / 10 K for measuring ranges 0 bar 0.6 bar up to 0 bar 25 bar Mean TC of zero: $\leq 0.25\%$ of span/ 10 K with pressure range 0 bar 0.4 bar $\leq 0.25\%$ of span/ 10 K, with pressure range 0 bar 0.4 bar Mean TC of zero: $\leq 0.4\%$ of span / 10 K for measuring range 0 bar 0.25 bar Mean TC of span $\leq 0.2\%$ of span / 10 K		
Rated temperature range	0 °C +80 °C		

## Ambient data

Ambient temperature	-20 °C +80 °C
Storage temperature	-40 °C +100 °C
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	15 g according to IEC 60068-2-6 (vibration under resonance)

### Classifications

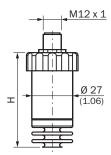
eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
eCl@ss 6.0	27200614
eCl@ss 6.2	27200614
eCl@ss 7.0	27200614
eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

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

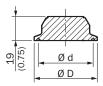
Housing with circular connector M12 x 1, IP67



With accuracy	н
0.5 %	64 (2.52

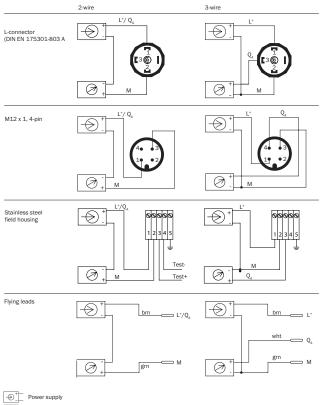
0.25 %	84 (3.31)

Clamp



Design		ØD	Ød
Tri-Clamp	1 1⁄2"	50 (1.97)	43.5 (1.71)
	2"	64 (2.52)	56.6 (2.23)
DIN 32676	DN 32	50 (1.97)	43.5 (1.71)
	DN 40	50 (1.97)	43.5 (1.71)
	DN 50	64 (2.52)	56.6 (2.23)
ISO 2852	DN 33.7	50 (1.97)	43.5 (1.71)
	DN 38	50 (1.97)	43.5 (1.71)
	DN 40	64 (2.52)	56.6 (2.23)
	DN 51	64 (2.52)	56.6 (2.23)

## Connection type



\_\_\_\_\_ Load

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## WORLDWIDE PRESENCE:

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