

PHT-RB1X0S650S0ALS0Z

PHT

PRESSURE SENSORS





Ordering information

Туре	Part no.
PHT-RB1X0S650S0ALS0Z	6039391

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

Illustration may differ



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 _A	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

Mechanics/electronics

Process connection	Coupling (DIN 11864-1) DN 50 form A with union nut	
Wetted parts	Stainless steel 1.4435	
Internal transmission fluid	Synthetic oil, FDA approved	
Housing material	Stainless steel 1.4571	
Connection type	L-connector (DIN EN 175301-803 A)	
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 ⁺ 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	
Seal	Without seal	
Enclosure rating	IP65 ¹⁾	

¹⁾ Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply when connected with female connectors that provide the corresponding enclosure rating.

Protection class III	✓
MTTF	403 years

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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	≤ 0.2 % of the span	
Temperature coefficient in rated temperature range	Mean TC of zero: $\le 0.2\%$ of span / 10 K for measuring ranges 0 bar 0.6 bar up to 0 bar 25 bar Mean TC of zero: $\le 0.25\%$ of span/ 10 K with pressure range 0 bar 0.4 bar $\le 0.25\%$ of span/ 10 K, with pressure range 0 bar 0.4 bar Mean TC of zero: $\le 0.4\%$ of span / 10 K for measuring range 0 bar 0.25 bar Mean TC of span $\le 0.2\%$ of span / 10 K	
Rated temperature range	0 °C +80 °C	

Ambient data

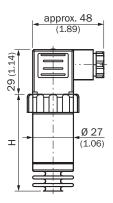
Ambient temperature	-20 °C +80 °C
Storage temperature	-40 °C +100 °C
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	15 g according to IEC 60068-2-6 (vibration under resonance)

Classifications

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

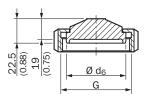
Dimensional drawing (Dimensions in mm (inch))

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



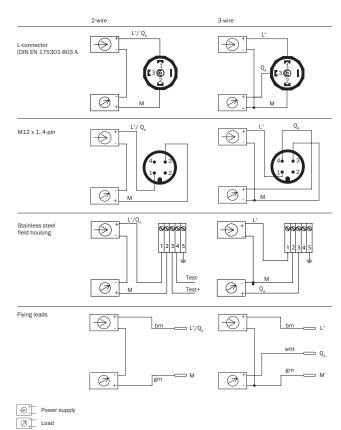
With accuracy H 0.5 % 64 (2.52) 0.25 % 84 (3.31)

Coupling (DIN 11864-1) form A with union nut



Design	G	Ø d ₆
DIN 11864-1 DN 40	Rd 65 x 1/6	54.9 (2.16)
DN 50	Rd 78 x 1/6	66.9 (2.63)

Connection type



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For us, that is "Sensor Intelligence."

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