

PHT-RB1X0S650S0AFT0Z

PHT

PRESSURE TRANSMITTER





Ordering information

Туре	Part no.
PHT-RB1X0S650S0AFT0Z	6039447

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	$4~\text{mA}\ldots 20~\text{mA}, 2\text{-wire}~(R_\text{A} \leq (\text{L}^+ - 10~\text{V}) / 0.02~\text{A}~[\text{Ohm}])$ The variant with field housing and current output $4~\text{mA}\ldots 20~\text{mA}$ 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. $0~\text{V}\ldots 10~\text{V}, 3\text{-wire}~(R_\text{A} > 10~\text{kOhm})$ $0~\text{V}\ldots 5~\text{V}, 3\text{-wire}~(R_\text{A} > 5~\text{kOhm})$
Output signal	4 mA 20 mA, 2-wire
EHEDG approval	√

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	Field housing
Supply voltage	11 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

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.

Enclosure rating	IP67 ¹⁾
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	≤ ± 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

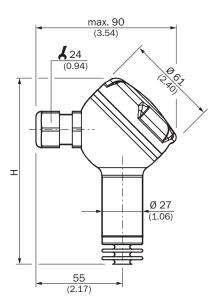
Ambient temperature	-20 °C +80 °C
Storage temperature	-40 °C +100 °C
Shock load	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration load	15 g according to IEC 60068-2-6 (vibration under resonance)

Classifications

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

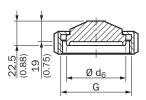
Dimensional drawing (Dimensions in mm (inch))

Stainless steel field case, compression fitting copper alloy, nickel plated, IP67



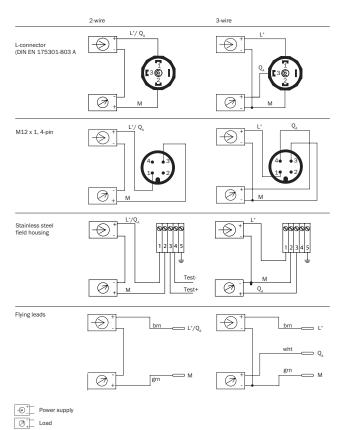
With accuracy	Н	
0.5 %	123 (4.84)	
0.25 %	138.5 (5.45)	

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



SICK AT A GLANCE

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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.

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