PHT-RBX60S550S0AMS0Z PHT

Beel Cole Miss

19183

ICK AG D.



PRESSURE SENSORS

PHT-RBX60S550S0AMS0Z | PHT

PRESSURE SENSORS



Ordering information

Туре	Part no.
PHT-RBX60S550S0AMS0Z	6039320

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 0.6 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 connectionConical coupling (DIN 11851) DN 50 with union nutWetted partsStainless steel 1.4435Internal transmission fluidSynthetic oil, FDA approvedHousing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltageOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L ⁺ to M Protection class: IIIDielectric strengthS00 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the svent of a fault)Dielectric strengthEMC directive: 2004/108/EC, EN 61326-23Keight sensorApprox. 500 gSealWithout seal			
Internal transmission fluidSynthetic oil, FDA approvedHousing materialStainless steel 1.4571Connection typeM12 round connector x 1, 4-pinSupply voltage0 V DC 30 V DCElectrical safetyOvervoltage protection: 36 V DC Short-circuit protection: QA towards M Reverse polarity protection: L* to M Protection class: IIIDielectric strengthS00 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even in the event of a fault)CE-conformityEMC directive: 2004/108/EC, EN 61326-2-3Weight sensorApprox. 500 g	Process connection	Conical coupling (DIN 11851) DN 50 with union nut	
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event of a fault) CE-conformity Weight sensor Approx. 500 g	Electrical safety	Short-circuit protection: Q_A towards M Reverse polarity protection: L^+ to M	
Weight sensor Approx. 500 g	Dielectric strength		
	CE-conformity	EMC directive: 2004/108/EC, EN 61326-2-3	
Seal Without seal	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.

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Enclosure rating	IP67 ¹⁾
Protection class III	✓
MTTF	403 years

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.

Performance

Non-linearity	\leq \pm 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2		
Accuracy	$\leq \pm 0.5$ % of the span		
Non-repeatability	$\leq \pm 0.1$ % 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

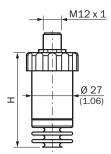
ECLASS 5.0	27200614
ECLASS 5.1.4	27200614
ECLASS 6.0	27200614
ECLASS 6.2	27200614
ECLASS 7.0	27200614
ECLASS 8.0	27200614
ECLASS 8.1	27200614
ECLASS 9.0	27200614
ECLASS 10.0	27200614
ECLASS 11.0	27200614
ECLASS 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC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

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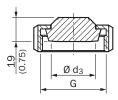
Dimensional drawing (Dimensions in mm (inch))

Housing with circular connector M12 x 1, IP67



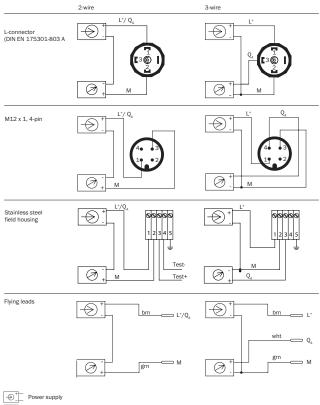
With accuracy	н
0.5 %	64 (2.52)
0.25 %	84 (3.31)

Conical coupling (DIN 11851) with union nut



Design		G	Ød ₃
DIN 11851	DN 25	Rd 52 x 1/6	44 (1.73)
	DN 40	Rd 65 x 1/6	48 (1.89)
	DN 50	Rd 78 x 1/6	61 (2.40)

Connection type



_____ Load

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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