PHT-RB6X0S550S0AFT0Z PHT

BBC BCC NS SCENTE LHL

19183

UCK AG. D.



PRESSURE SENSORS

PHT-RB6X0S550S0AFT0Z | PHT

PRESSURE SENSORS



Ordering information

| Туре | Part no. |
|----------------------|----------|
| PHT-RB6X0S550S0AFT0Z | 6039435 |

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 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 connection | Conical coupling (DIN 11851) DN 50 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.

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| Enclosure rating | IP67 ¹⁾ |
|----------------------|--------------------|
| Protection class III | \checkmark |
| 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 ± 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) |

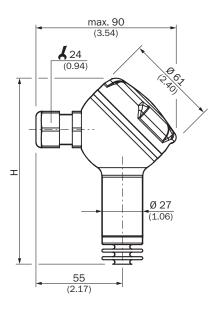
Classifications

| 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 |

PRESSURE SENSORS

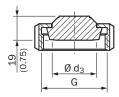
Dimensional drawing (Dimensions in mm (inch))

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) |

Conical coupling (DIN 11851) with union nut



| Design | | G | Ø d 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

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For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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Online data sheet

