

PHT-RB010EVNOSEAFT0Z PHT



PRESSURE SENSORS

PHT-RB010EVN0SEAFT0Z | PHT

PRESSURE SENSORS



Ordering information

| Туре | Part no. |
|----------------------|----------|
| PHT-RB010EVN0SEAFT0Z | 6044398 |

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 10 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 | Varivent connection type N |
|-----------------------------|--|
| 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 | EPDM |

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 ± 0.25 % 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) |

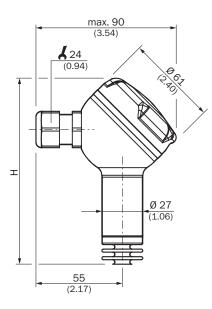
Classifications

| 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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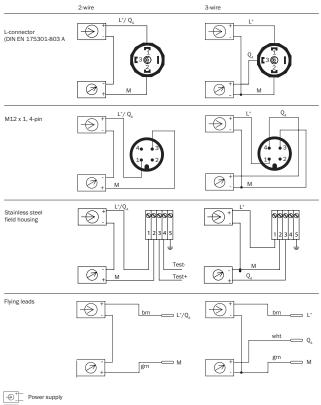
Dimensional drawing (Dimensions in mm (inch))

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) |

Connection type



_____ .Load

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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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For us, that is "Sensor Intelligence."

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Contacts and other locations -www.sick.com



Online data sheet

