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Product data sheet



PHT-CP015ST10SEAMS0Z

PHT

PRESSURE TRANSMITTER

SICK
Sensor Intelligence.

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PHT-CP015ST10SEAMS0Z | PHT

PRESSURE TRANSMITTER



Illustration may differ

Ordering information

Type	Part no.
PHT-CP015ST10SEAMS0Z	6061830

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

Detailed technical data

Features

Medium	Liquid, gaseous
Pressure type	Compound pressure
Pressure unit	psi
Measuring range	–30 inHg ... 0 psi
Process temperature	–20 °C ... +150 °C
Maximum ohmic load R_A	4 mA ... 20 mA, 2-wire ($R_A \leq (L^+ - 10\ V) / 0.02\ A\ [Ohm]$) 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 kOhm) 0 V ... 5 V, 3-wire (R_A > 5 kOhm)
Output signal	4 mA ... 20 mA, 2-wire
EHEDG approval	✓

Mechanics/electronics

Process connection	Tri-Clamp 1 ½"
Wetted parts	Stainless steel 1.4435
Internal transmission fluid	Synthetic oil, FDA approved
Housing material	Stainless steel 1.4571
Connection type	M12 round connector x 1, 4-pin
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

[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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Seal	EPDM
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	≤ ± 0.2 %, of span (Best Fit Straight Line, BFSL) according to IEC 61298-2
Accuracy	≤ ± 0.5 % of the span
Non-repeatability	≤ ± 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: ≤ 0.2% of span / 10 K for measuring ranges 0 bar ... 0.6 bar up to 0 bar ... 25 bar, Mean TC of zero: ≤ 0.25 % of span/ 10 K with pressure range 0 bar ... 0.4 bar≤ 0.25 % of span/ 10 K, with pressure range 0 bar ... 0.4 bar, Mean TC of zero: ≤ 0.4% of span / 10 K for measuring range 0 bar ... 0.25 bar, Mean TC of span ≤ 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

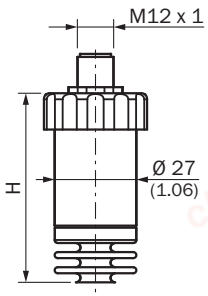
eCl@ss 5.0	27200614
eCl@ss 5.1.4	27200614
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eCl@ss 8.0	27200614
eCl@ss 8.1	27200614
eCl@ss 9.0	27200614
eCl@ss 10.0	27200614
eCl@ss 11.0	27200614
eCl@ss 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

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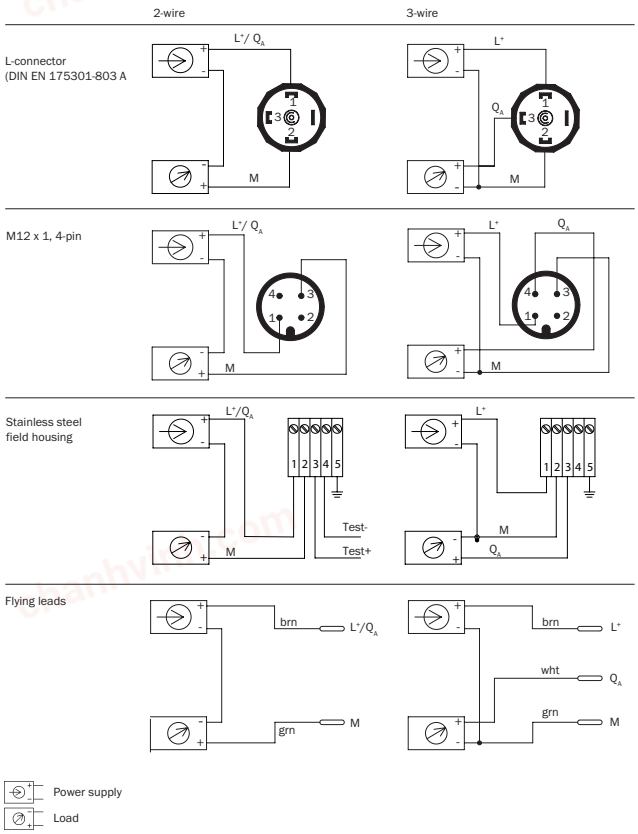
Dimensional drawing (Dimensions in mm (inch))

Housing with circular connector M12 x 1, IP67



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

Connection type



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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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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