



## Pressure sensors Pressure transmitter

PHT-RBX25ST10SEALS0Z



**Model Name** > [PHT-RBX25ST10SEALS0Z](#)  
**Part No.** > [6041824](#)



*Illustration may differ*

#### At a glance

- Robust and precise pressure measurement technology
- Gauge measuring ranges from 0 ... 0.25 bar up to 0 ... 25 bar
- Available in 2 accuracy classes:
- Flush-mounted, hermetically sealed stainless steel membrane with roughness Ra < 0.4 µm
- Wetted parts stainless steel 1.4435, housing stainless steel 1.4571
- Large range of hygienic process connectors
- Stainless steel housing and field housing with enclosure rating of up to IP 68

#### Your benefits

- Perfectly suited for demanding hygienic applications in the food and beverage, pharmaceutical and cosmetics industries
- Safe hygienic operation through EHEDG and 3-A certifications
- High reliability due to robust design and use of high-grade materials
- Withstands CIP/SIP, ensuring high system availability and reliability
- Transmitter housing is easily cleaned
- Versatile configurability optimizes solutions



#### Features

|                      |                    |
|----------------------|--------------------|
| Pressure type:       | Gauge pressure     |
| Measuring range:     | 0 bar ... 0.25 bar |
| Process temperature: | -20 °C ... 150 °C  |
| CE-conformity:       | ✓                  |
| Output signal:       | 4...20 mA          |

#### Performance

|                                                     |                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy:                                           | ≤ +/- 0.5 % (of span)                                                                                                                                                                                                                                                                                                                                                  |
| Non-linearity:                                      | ≤ +/- 0.2 % (of span (Best Fit Straight Line, BFSL) according to IEC 61298-2)                                                                                                                                                                                                                                                                                          |
| Long-term drift/one-year stability:                 | ≤ 0.2 % of span                                                                                                                                                                                                                                                                                                                                                        |
| Temperature coefficient in rated temperature range: | Mean TC of span: ≤ 0.2 % of span/ 10 K, Mean TC of zero: ≤ 0.2 % of span/ 10 K, with pressure ranges 0 bar ... 0.6 bar 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 with pressure range 0 bar ... 0.25 bar |
| Rated temperature range:                            | 0 °C ... 80 °C                                                                                                                                                                                                                                                                                                                                                         |
| Non-repeatability:                                  | ≤ +/- 0.1 % of span                                                                                                                                                                                                                                                                                                                                                    |
| Response time (10 % ... 90 %):                      | ≤ 10 ms                                                                                                                                                                                                                                                                                                                                                                |

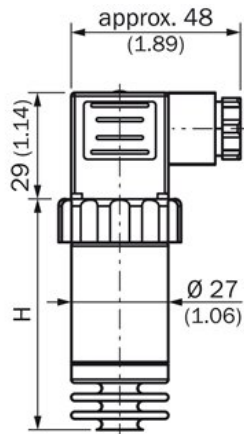
## Mechanics/electronics

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Process connection:   | Tri-Clamp 1 ½"                                                                                                                            |
| Wetted parts:         | Stainless steel 1.4435                                                                                                                    |
| Seal:                 | EPDM                                                                                                                                      |
| Housing material:     | Stainless steel 1.4571                                                                                                                    |
| Enclosure rating:     | IP 65                                                                                                                                     |
| Connection type:      | L-connector (DIN EN 175301-803 A), IP 65                                                                                                  |
| Supply voltage:       | 10 V DC ... 30 V DC                                                                                                                       |
| Electrical safety:    | Short-circuit protection: QA towards M, Protection class: III, Overvoltage protection: 36 V DC, Reverse polarity protection: L+ towards M |
| Dielectric strength:  | 500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even under fault conditions)                                 |
| Protection class III: | ✓                                                                                                                                         |
| Weight sensor:        | 500 g                                                                                                                                     |
| CE-conformity:        | EMC directive: 2004/108/EEC, EN 61326-2-3                                                                                                 |

## Ambient data

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

## Dimensional drawing housing



All dimensions in mm (inch)

### With accuracy H

|        |           |
|--------|-----------|
| 0.5 %  | 64 (2.52) |
| 0.25 % | 84 (3.31) |

Connection type



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