



## Pressure sensors Pressure transmitter

PHT-RB010S540S0AFT0Z



**Model Name** > **PHT-RB010S540S0AFT0Z**  
**Part No.** > **6039429**



*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 ... 10 bar  |
| Process temperature: | -20 °C ... 150 °C |
| Rated temperature:   | 0 °C ... 80 °C    |
| CE-conformity:       | ✓                 |
| Output signal:       | 4...20 mA         |

#### Performance

|                |                                       |
|----------------|---------------------------------------|
| Accuracy:      | ≤ +/- 0.5 % (of span)                 |
| Non-linearity: | 0.2 % (Best Fit Straight Line (BFSL)) |
| Response time: | ≤ 10 ms                               |

#### Mechanics/electronics

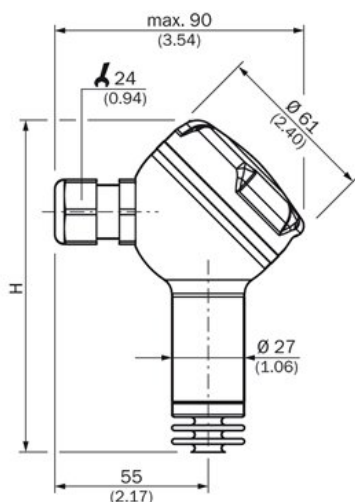
|                     |                                  |
|---------------------|----------------------------------|
| Process connection: | Female union nut DIN 11851 DN 40 |
| Wetted parts:       | Stainless steel 1.4435           |
| Housing material:   | Stainless steel 1.4571           |
| Enclosure rating:   | IP 67                            |

|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Connection type:      | Field housing IP 67                                                                                                   |
| Supply voltage:       | 11 V DC ... 30 V DC                                                                                                   |
| Electrical safety:    | Short-circuit protection: QA towards M, Overvoltage protection: 36 V DC,<br>Reverse polarity protection: L+ towards M |
| Dielectric strength:  | 500 V DC, NEC Class 02 power supply (low voltage and low current max.<br>100 VA even under fault conditions)          |
| Protection class III: | ✓                                                                                                                     |
| Weight sensor:        | ± 500 g                                                                                                               |

#### Ambient data

|                      |                                                      |
|----------------------|------------------------------------------------------|
| 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)    |

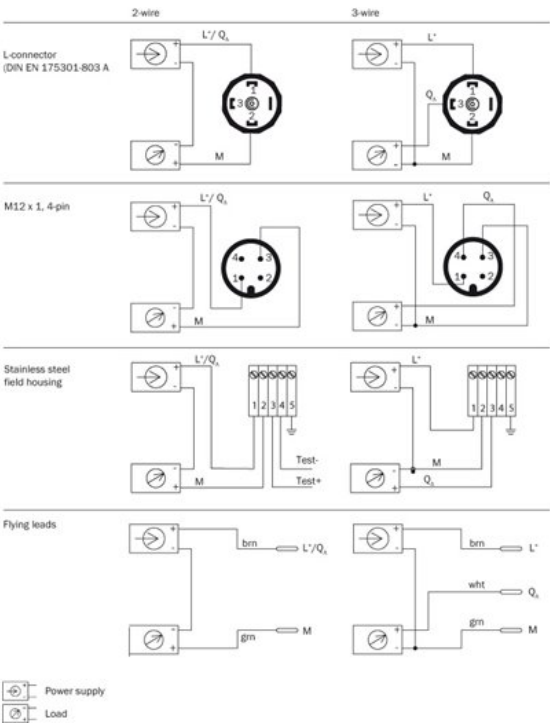
#### Dimensional drawing housing



All dimensions in mm (inch)

| With accuracy | H            |
|---------------|--------------|
| 0.5 %         | 123 (4.84)   |
| 0.25 %        | 138.5 (5.45) |

Connection type



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