



## Pressure sensors Pressure transmitter

PHT-RBX25S550S0AMS0Z



**Model Name** > [PHT-RBX25S550S0AMS0Z](#)  
**Part No.** > [6039319](#)



*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  |
| 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

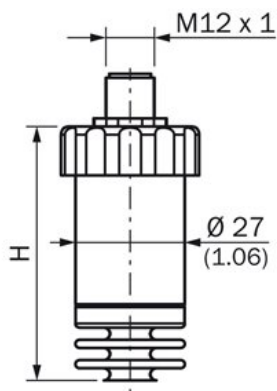
|                     |                                  |
|---------------------|----------------------------------|
| Process connection: | Female union nut DIN 11851 DN 50 |
| Wetted parts:       | Stainless steel 1.4435           |
| Housing material:   | Stainless steel 1.4571           |
| Enclosure rating:   | IP 67                            |

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Connection type:      | M12 x 1, 4-pin                                                                                                     |
| Supply voltage:       | 10 V DC ... 30 V DC                                                                                                |
| Electrical safety:    | Short-circuit protection: QA towards M, 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                                                                                                            |

#### 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

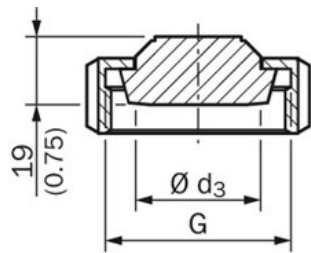


All dimensions in mm (inch)

#### With accuracy H

|               |           |
|---------------|-----------|
| <b>0.5 %</b>  | 64 (2.52) |
| <b>0.25 %</b> | 84 (3.31) |

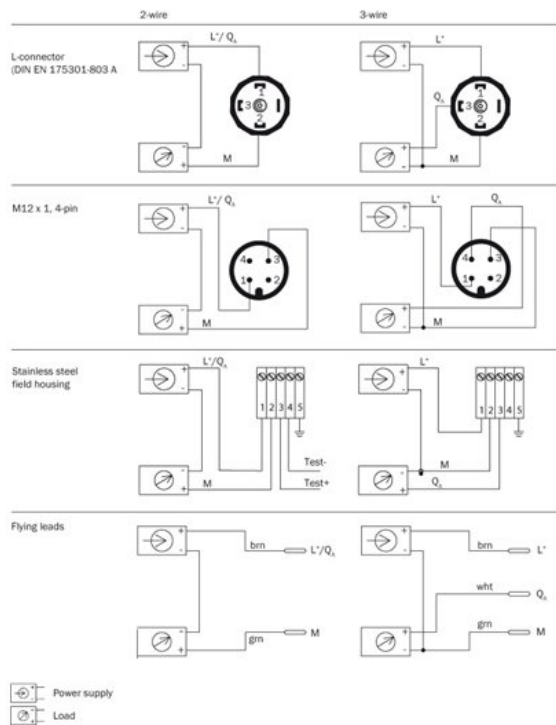
Dimensional drawing process connection



All dimensions in mm (inch)

| Design    |       | G           | Ø d3         |
|-----------|-------|-------------|--------------|
| DIN 11851 | DN 25 | Rd 52 x 1/6 | 44<br>(1.73) |
|           | DN 40 | Rd 65 x 1/6 | 48<br>(1.89) |
|           | DN 50 | Rd 78 x 1/6 | 61<br>(2.40) |

Connection type



**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)