# FLUSH DIAPHRAGM PRESSURE TRANSMITTER

## BHT 26

"Flush Pressure Transmitter For Food Industry and Aseptic Applications "



- SS316L isolation diaphragm structure
- 26 mm diameter stainless steel housing
- Suitable for 1,5” tri-clamp (DN40) connection
- Different options from 0…100 mBar to 0…100 Bar (Exp: 0...100mbar / 0...200mbar / 0...1bar / 0...16bar / 0...100bar etc.)
- 4…20mA / 0...10VDC etc. Different analog output options
- Suitable for process temperature up to 120°C
- EMC and reverse polarity protection
- High accuracy and stability
- IP65 protection class

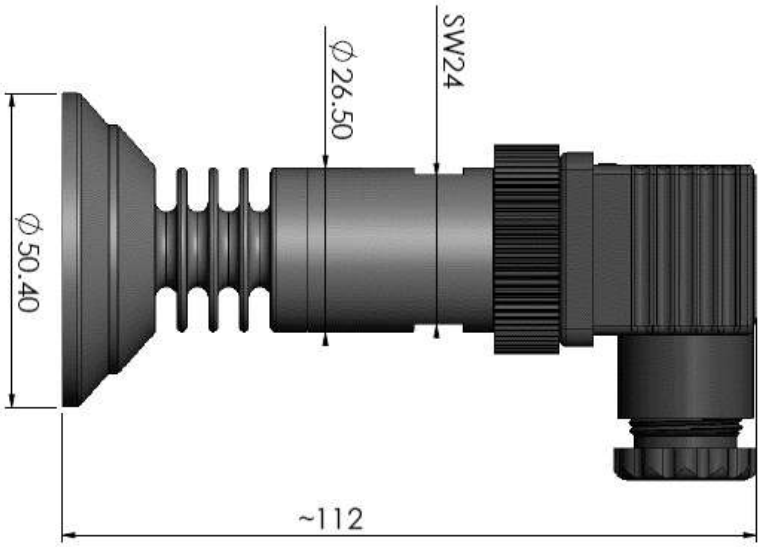
BHT 26 flush pressure transmitter is applicable to food, beverage, pharmaceutical and biological engineering. Full metal flush-mounting isolation diaphragm is directly welded with process connection to ensure the precision connection between process connection and measuring diaphragm. Therefore, no additional sealing gaskets are required, and it ensures there are no measurement dead zones.

The stainless steel 316L diaphragm separates the measuring medium from the pressure sensor, and the process pressure from the diaphragm to the piezoresistive sensor is transferred statically through the filling fluid which has the hygienic license.

## APPLICATIONS

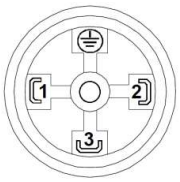
- Oil and gas, compressed air, steam, liquid, paste and powder media
- Vacuum pressure detection such as vacuum transfer pump monitoring

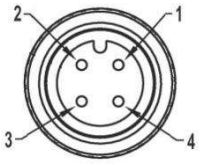
## MEHANICAL DIMENSIONS (mm)

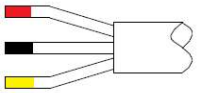



| | | | | | | |
|---|---|---|---|---|---|---|
| **Pressure range** | Different options from 0…100 mBar to 0…100 Bar (See page3 “pressure range selection”)<br>Exp: 0...100mbar / 0...200mbar / 0...1bar / 0...16bar / 0...100bar etc. | | | | | |
| **Diaphragm** | 316L stainless steel | | | | | |
| **Output Signal** | **4...20mA (2 Wire)** | **0...20mA (3 Wire)** | **0...10VDC** | **1...6VDC** | **0...5VDC** | **Ratiometric** |
| **Supply Voltage** | 8 ... 32 VDC | 12...30 VDC | 12...30 VDC | 12...30 VDC | 12...30 VDC | 5 VDC |
| **Accuracy** | %0.5FS | | | | | |
| **Hysteresis and repeatability** | %0.1FS | | | | | |
| **Temperature drift** | 0.1bar: ±%3FS (0°C～60°C)<br>Other ranges: ±%1.5FS (-10°C～70°C) | | | | | |
| **Response time** | ≤1ms (up to 90%FS) | | | | | |
| **Overpressure** | See. Pressure range selection table (page3) | | | | | |
| **Service life** | $1\times10^6$ pressure cycles | | | | | |
| **Operating temperature** | -40°C ... +120°C | | | | | |
| **Storage temperature** | -40°C ... +120°C | | | | | |
| **EMC** | Immunity: IEC 61000-6-2, Radiation: IEC 61000-6-3 | | | | | |
| **Insulation resistance** | ≥200MΩ/250VDC | | | | | |
| **Surge** | IEC 61000-4-5 3 level | | | | | |
| **Static** | IEC 61000-4-2 4 level | | | | | |
| **Electrical connection** | DIN43650-A, M12 connector or 3 x 0.14mm$^2$ PVC cable | | | | | |
| **Mehanical Connection** | 1,5” tri-clamp (DN40) | | | | | |
| **Housing material** | 316L stainless steel | | | | | |
| **Medium compatibility** | All kinds of media compatible with SS316L | | | | | |
| **Protection** | IP65 | | | | | |

## ELECTIRICAL CONNECTIONS



| | | DIN D43650-A | M12 / 4 PIN | | CABLE |
|---|---|---|---|---|---|
| | | S30 | S12 | S15 | |
| | | PIN NO | PIN NO | | COLOR |
| CURRENT OUTPUT | +Vcc | 2 | 2 | 1 | RED |
| | Analog Output | 1 | 1 | 3 | BLACK |
| VOLTAGE UTPUT | +Vcc | 2 | 2 | 1 | RED |
| | GND | 1 | 1 | 3 | BLACK |
| | Analog Output | 3 | 3 | 2 | YELLOW |

## PRESSURE RANGE SELECTION

| Code | Pressure Range | Overpressure | Burst Pressure |
|---|---|---|---|
| 100mBar | 0〜0,1 Bar | %300FS | %600FS |
| 200mBar | 0〜0,2 Bar | %300FS | %600FS |
| 350mBar | 0〜0,35 Bar | %300FS | %600FS |
| 700mbar | 0〜0,7 Bar | %300FS | %600FS |
| 1Bar | 0〜1 Bar | %200FS | %500FS |
| 1,6Bar | 0〜1,6 Bar | %200FS | %500FS |
| 2,5Bar | 0〜2,5 Bar | %200FS | %500FS |
| 4Bar | 0〜4 Bar | %200FS | %500FS |
| 6Bar | 0〜6 Bar | %200FS | %500FS |
| 10Bar | 0〜10 Bar | %200FS | %500FS |
| 16Bar | 0〜16Bar | %200FS | %500FS |
| 25Bar | 0〜25 Bar | %200FS | %500FS |
| 40Bar | 0〜40 Bar | %200FS | %400FS |
| 60Bar | 0〜60 Bar | %200FS | %400FS |
| 100Bar | 0〜100 Bar | %200FS | %400FS |

## ORDER CODE

### Output Signal

**Voltage Output Products**
V : 0-10VDC (standard)
V1 : 0-5VDC
V2 : 1-6VDC
V3 : 0,5-4,5VDC
V4 : 0,5-5,5VDC
V5 : 1-5VDC
V6 : 1-10VDC

Ratiometric Products
V8 : Ratiometric 0.5-4.5VDC
V9 : Ratiometric 0-5VDC

Current Output Products
A : 4-20mA (2-wire) (standard)
A0 : 0-20mA (3-wire)

*Ask for others

### Model

**BHT 26** — **XXbar** — **XX** — **XXX**

### Pressure Range

Different models from 100 mbar to 100 bar

***See page3 "pressure range selection"**

### Electrical Connection

S30 : DIN43650-A type connector
S12 : M12x1 4 pin
S15 : M12x1 4 pin (1 supply, 3 output)
2M : 2 meters cable

*Ask for others

**Sample Order Code:** BHT 26 10bar A S30