

PBSH-RB6X0SHGEED5A0Z







Model Name> PBSH-RB6X0SHGEED5A0ZPart No.> 6051862



Illustration may differ

## At a glance

- Hygienically-graded pressure switch with display for the food and beverage industry
- Wetted parts are made from stainless steel 1.4435
- · Individually programmable switching outputs and analog output
- · Pressure values are indicated on the display
- · Unit of pressure value in the display can be switched
- · Output states are indicated separately via large LEDs

## Your benefits

- Safe hygienic operation due to flush-mounted, highly resistant stainless steel
  membrane and hygienic process connections
- · Suitability for CIP and SIP ensures high system availability
- Safe and easy setup with three large pushbuttons and legible, rotatable display
- · Rotatable housing for optimum cable routing
- · Wide range of available configurations enable customer-specific solutions
- High reliability: Corrosion-resistant design of wetted parts and housing with IP 65
   and IP 67 enclosure ratings
- Ultimate system availability: IO-Link enables fast, reliable parameter setting when changing over products

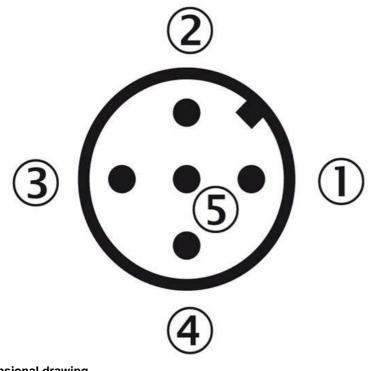


Features

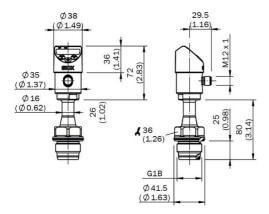
#### Pressure type: Gauge pressure Measuring range: 0 bar ... 6 bar -20 °C ... +125 °C, +150 °C for max. 1 h <sup>1)</sup> Process temperature: 14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by Display: 180°, Update: 1,000, 500, 200, 100 ms (adjustable), Accuracy: ≤ 1 % of span ± 1 digit 2 x PNP + 4 mA ... 20 mA Output signal: Rotatable housing: Display against housing with electrical connection: 330°, Housing against process connection: 320 Maximum ohmic load RA: ≤ 0.5 kΩ Gauge pressure: 0 bar ... 1 bar up to 0 bar ... 25 bar Absolute pressure: 0 bar ... 1 bar up to 0 bar ... 25 bar Compound pressure: -1 bar ... 0 bar up to -1 bar ... +24 bar 2-fold Overpressure safety: Zero point adjustment: Max. + 3 % of span Medium: Liquid and gaseous media

# Performance

Tenomance	
Accuracy:	≤ ± 1 % of span (Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement according to IEC 61298 2))
Non-linearity:	$\leq$ ± 0.5 % (of span (Best Fit Straight Line, BFSL) according to IEC 61298-2)
Setting accuracy of switching outputs:	≤ ± 0.5 % of span
Response time:	3 ms
Long-term drift/one-year stability:	$\leq$ ± 0.2 % of span according to IEC 61298-2
Temperature coefficient in rated temperature range:	Typical TC of zero: In the temperature range 0 °C 20 °C: 0.7 % of span /10 K. In the temperature range 20 °C 80 °C: 0.2 % of span /10 K. typical TC of span: In the temperature range 0 °C 80 °C: 0.1 % of the span /10 K
Rated temperature range:	0 °C +80 °C
Mechanics/electronics	
Process connection:	G 1 hygienic flush-mounted
Wetted parts:	Stainless steel 1.4435/316L
Seal:	Wetted parts: EPDM, Not wetted parts: EPDM
Housing material:	Display window: PC, Plastic head: PC + ABS, Buttons: TPE-E, Lower body: stainless steel 304
Enclosure rating:	IP 65/IP 67
Electrical connection:	Round connector M12 x 1, 5-pin
Power consumption:	Max. 70 mA
Electrical safety:	Short-circuit protection: QA, Q1, Q2 towards M, Protection class: III, Overvoltage protection: 40 V DC, Reverse polarity protection: L+ towards M
Protection class III:	$\checkmark$
Internal transmission fluid:	Medical white oil, FDA compliant according to CFR 172.878 and 21 CFR 178.3620(a), compliant to USP, EP, and JP
Total current consumption:	Max. 570 mA (incl. switching current)
Isolation voltage:	500 V DC
CE-conformity:	EMC directive: 2004/108/EC, EN 61326-2-3
Ambient data	
Storage temperature:	-20 °C +80 °C
Ambient temperature:	-20 °C +80 °C
Shock load:	50 g according to IEC 60068-2-27 (mechanical shock)
Vibration load:	10 g according to IEC 60068-2-6 (vibration under resonance)
Relative humidity:	45 % 75 %



## Dimensional drawing



- |1| L+: Positive supply connection
- 2 |Q2: Switching output 2
- 3 M: Negative supply connection
- |4| C/Q1: Switching output 1 (with
  - IO-Link: communication / switching output 1)
- |5| QA: Analog output

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