

PBSH-RB010ST1S0D5A0Z







Model Name> PBSH-RB010ST1S0D5A0ZPart No.> 6051851



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



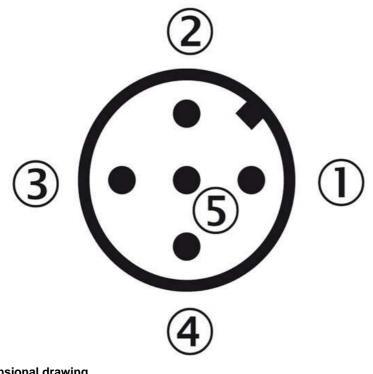
Features

Pressure type:	Gauge pressure
Measuring range:	0 bar 10 bar
Process temperature:	-20 °C +100 °C, +135 °C for max. 1 h
Display:	14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180°, Update: 1,000, 500, 200, 100 ms (adjustable), Accuracy: ≤ 1 % of span ± 1 digit
Output signal:	2 x PNP + 4 mA 20 mA
Rotatable housing:	Display against housing with electrical connection: 330 $^\circ,$ Housing against process connection: 320 $^\circ$
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
Overpressure safety:	2-fold
Zero point adjustment:	Max. + 3 % of span
Medium:	Liquid and gaseous media
EHEDG approval:	-

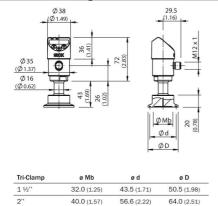
1) EHEDG conformity with clamp connection only in combination with a Kalrez® stainless steel gasket from Dupont de Nemours or with a T-ring seal from Combifit

International B.V

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:	Tri-Clamp 1 ½"
Wetted parts:	Stainless steel 1.4435/316L
Seal:	Without seal
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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