

PBS Hygienic

Pressure switch for hygienic applications with display, analog output and IO-Link







Technical data overview

Measuring ranges	
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
Pressure unit	Bar, MPa, psi and kg/cm ²
Accuracy	\leq ± 1 % of the span
Setting accuracy of switching outputs	≤ ± 0.5 % of span
Output signal	Switching outputs PNP or NPN, analog output signal plus optional IO-Link $$
Electrical connection	Round connector M12 x 1

Product description

The electronic pressure switch PBS Hygienic has been designed for use in the food and beverage industry. The wetted parts are gap-free and have no dead spaces. Their high-quality stainless steel surfaces are smooth and easy to clean. The highly resistant stainless steel membrane is welded to the hygienic process connection without gaps or edges.

The device is designed for CIP and SIP processes. This enables safe hygienic operation in conjunction with optimized system throughput.

The PBS Hygienic is available with up to two switching outputs, an analog output and IO-Link in a single device. Its intuitive configuration via three large pushbuttons and display facilitates operation. The housing can be rotated in two ways, allowing the display and electrical connection to be aligned according to specific installation situation. Available with a variety of measuring ranges and process connections, the PBS Hygienic is suitable for universal use.

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
- IO-Link

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

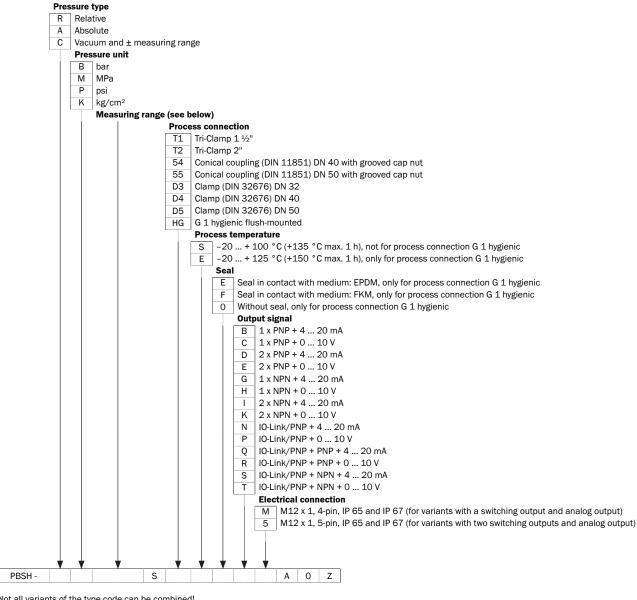
Fields of application

- Hygienic pressure measurement and monitoring in the food and beverage industry
- Bottle filling machines
- · Packaging machines
- · Hydrostatic level measurement of liquids in tall tanks

Type code

Other models and accessories → www.sick.com/PBS_Hygienic

Type code



Not all variants of the type code can be combined!

Measuring range

	Gauge pressure measuring range
1X0	0 1 bar
1X6	0 1.6 bar
2X5	0 2.5 bar
4X0	0 4 bar
6X0	0 6 bar
010	0 10 bar
016	0 16 bar
025	0 25 bar

	Absolute pressure measuring range
1X0	0 1 bar abs
1X6	0 1.6 bar abs
2X5	0 2.5 bar abs
4X0	0 4 bar abs
6X0	0 6 bar abs
010	0 10 bar abs
016	0 16 bar abs
025	0 25 bar abs

	± measuring range
1X0	-1 0 bar
2X5	-1 +1.5 bar
4X0	-1 +3 bar
6X0	-1 +5 bar
010	-1 +9 bar
016	-1 +15 bar
025	-1 +24 bar

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	Gauge pressure measuring range
015	0 15 psi
025	0 25 psi
030	0 30 psi
050	0 50 psi
060	0 60 psi
100	0 100 psi
160	0 160 psi
200	0 200 psi
250	0 250 psi
300	0 300 psi

	Absolute pressure measuring range
015	0 15 psi abs
025	0 25 psi abs
030	0 30 psi abs
050	0 50 psi abs
60	1 60 psi abs
100	0 100 psi abs
160	0 160 psi abs
200	0 200 psi abs
250	1 250 psi abs
300	0 300 psi abs

	± measuring range
015	-14.5 +0 psi
030	-14.5 +15 psi
040	-14.5 +25 psi
045	-14.5 +30 psi
065	-14.5 +50 psi
115	-14.5 +100 psi
175	-14.5 +160 psi
215	-14.5 +200 psi
315	-14.5 +300 psi

	Gauge pressure measuring range
X10	0 0.1 MPa
X16	0 0.16 MPa
X25	0 0.25 MPa
X40	0 0.4 MPa
X60	0 0.6 MPa
1X0	0 1 MPa
1X6	0 1.6 MPa
2X5	0 2.5 MPa

	Absolute pressure measuring range
X10	0 0.1 MPa abs
X16	0 0.16 MPa abs
X25	0 0.25 MPa abs
X40	0 0.4 MPa abs
X60	0 0.6 MPa abs
1X0	0 1 MPa abs
1X6	0 1.6 MPa abs
2X5	0 2.5 MPa abs

	± measuring range
X10	-0.1 +0 MPa
X25	-0.1 +0.15 MPa
X40	-0.1 +0.3 MPa
X60	-0.1 +0.5 MPa
1X0	-0.1 +0.9 MPa
1X6	-0.1 +1.5 MPa
2X5	-0.1 +2.4 MPa

	Gauge pressure measuring range
1X0	0 1 kg/cm ²
1X6	0 1.6 kg/cm ²
2X5	0 2.5 kg/cm ²
4X0	0 4 kg/cm ²
6X0	0 6 kg/cm ²
010	0 10 kg/cm ²
016	0 16 kg/cm ²
025	0 25 kg/cm ²

	Absolute pressure measuring range
1X0	0 1 kg/cm ² abs
1X6	0 1.6 kg/cm ² abs
2X5	0 2.5 kg/cm ² abs
4X0	0 4 kg/cm ² abs
6X0	0 6 kg/cm ² abs
010	0 10 kg/cm ² abs
016	0 16 kg/cm ² abs
025	0 25 kg/cm ² abs

	± measuring range
1X0	-1 0 kg/cm ²
2X5	-1 +1.5 kg/cm ²
4X0	-1 +3 kg/cm ²
6X0	-1 +5 kg/cm ²
010	-1 +9 kg/cm ²
016	-1 +15 kg/cm ²
025	-1 +24 kg/cm ²

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