



PS-00

Low-Cost Pressure Switch

Features

/ Settings can be made on location
/ Long mechanical life span
/ Small dimensions
/ Silver or gold contacts
/ Critical media version
(paint, grease etc.) on request

Description:

A spring-loaded membrane or (in higher ranges of pressure) a spring-loaded piston form the measurement technical basis for the Profimess' Low-Cost Pressure switch PS-00. Under the influence of pressure the operating element actuates an electrical micro-switch that is equipped with silver contacts and thus ensures a long life span. By means of a setting screw the pre-tension for the spring can be smoothly adjusted, with the result that the setpoint can be varied along entire range of setting.

Application:

Mechanical pressure switches are used in all areas where an electrical signal is required depending on the specified pressure parameters.

These devices are predestined - thanks to small dimensions, high reliability and long life span – especially for applications in the construction of machines and installations. Due to excellent price to performance ratio, the PS-00 range of pressure switches are suited for OEM applications as well regardless of average to high numbers.



Technical Specifications:

Operating range / see ordering codes

Mode of setting / by setting screw, under pressure

Switch. hysteresis / 15...30% of set point value

Tolerance / PS-00.1.: ± 0.2 bar

PS-00.2:: ± 0.5 bar PS-00.3:: ± 3.0 bar PS-00.4:: ± 5.0 bar PS-00.5:: ± 100 mbar

max. Op. pressure / 1 x end of range

Bursting pressure / PS-00.1.: 10 bar

PS-00.2:: 20 bar PS-00.3:: 120 bar PS-00.4:: 300 bar PS-00.5:: 2 bar

Mech. Lifetime / 10⁶ switching cycles

max. Media temp. / -25...+85°C

Housing / see Table 1

Process connection / G1/4"B for overpressure ranges,

G1/8"B for neg. pressure ranges

Weight / PS-00.1-2.: approx. 65 g

PS-00.3-4.: approx. 95 g PS-00.5.: approx. 120 g

Electrical Specifications:

Reference voltage / max. 42 V

Reference frequenzy / not over 100 Hz

Switching load / max. 100 VA

Switching function / change-over (NO-contact or

NC-contact on request)

Connection / flat plug 3 x 6.3 x 0.8

Protection class / IP65 on media side

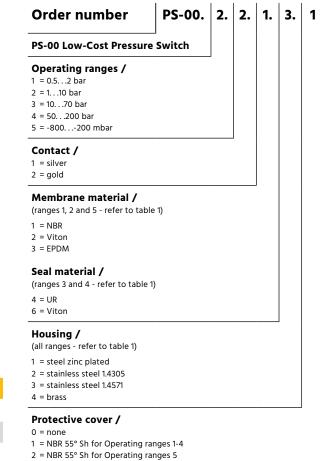
IP00 on clamp side

Breaking capacity	AC						
Voltage up to	125 V	250 V	30 V	50 V	75 V	125 V	250 V
Resistance load	4 A	4 A	2 A	2 A	1 A	0,5 A	0,25 A
Inductive load	1 A	1 A	1 A	1 A	0,5 A	0,2 A	0,2 A

Configuration Possibilities:

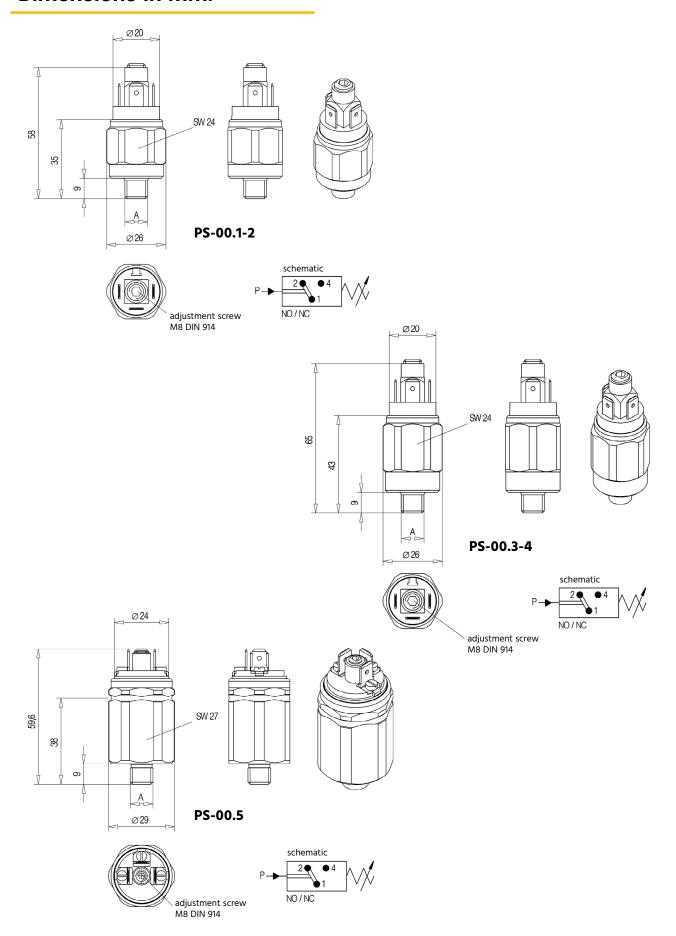
Auswahlmöglichkeit	PS-00.1	PS-00.2	PS-00.3	PS-00.4	PS-00.5
Contact silver	standard	standard	standard	standard	standard
Contact gold	option	option	option	option	option
Membrane material NBR	standard	standard	-	-	standard
Membrane materiall Viton	option	option	-	-	option
Membrane material EPDM	option	option	-	-	option
Seal material UR	-	-	standard	standard	-
Seal material Viton	-	-	option	option	-
Housing steel zinc plated	standard	standard	standard	standard	-
Housing st. steel 1.4305	option	option	option	option	-
Housing st. steel 1.4571	option	option	-	-	-
Housing material brass	option	option	-	-	standard

Ordering Codes:





Dimensions in mm:





Pressure-Measurement and -monitoring

