



# 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:

<b>Operating range /</b>	see ordering codes
<b>Mode of setting /</b>	by setting screw, under pressure
<b>Switch. hysteresis /</b>	15...30% of set point value
<b>Tolerance /</b>	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
<b>max. Op. pressure /</b>	1 x end of range
<b>Bursting pressure /</b>	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
<b>Mech. Lifetime /</b>	10 <sup>6</sup> switching cycles
<b>max. Media temp. /</b>	-25...+85°C
<b>Housing /</b>	see Table 1
<b>Process connection /</b>	G1/4"B for overpressure ranges, G1/8"B for neg. pressure ranges
<b>Weight /</b>	PS-00.1-2.: approx. 65 g PS-00.3-4.: approx. 95 g PS-00.5.: approx. 120 g

## Electrical Specifications:

<b>Reference voltage /</b>	max. 42 V
<b>Reference frequency /</b>	not over 100 Hz
<b>Switching load /</b>	max. 100 VA
<b>Switching function /</b>	change-over (NO-contact or NC-contact on request)
<b>Connection /</b>	flat plug 3 x 6.3 x 0.8
<b>Protection class /</b>	IP65 on media side IP00 on clamp side

Breaking capacity	AC		DC				
<b>Voltage up to</b>	125 V	250 V	30 V	50 V	75 V	125 V	250 V
<b>Resistance load</b>	4 A	4 A	2 A	2 A	1 A	0,5 A	0,25 A
<b>Inductive load</b>	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 material 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:

<b>Order number</b>	<b>PS-00.</b>	<b>2.</b>	<b>2.</b>	<b>1.</b>	<b>3.</b>	<b>1</b>
<b>PS-00 Low-Cost Pressure Switch</b>						
<b>Operating ranges /</b>						
1 = 0.5...2 bar						
2 = 1...10 bar						
3 = 10...70 bar						
4 = 50...200 bar						
5 = -800...-200 mbar						
<b>Contact /</b>						
1 = silver						
2 = gold						
<b>Membrane material /</b>						
(ranges 1, 2 and 5 - refer to table 1)						
1 = NBR						
2 = Viton						
3 = EPDM						
<b>Seal material /</b>						
(ranges 3 and 4 - refer to table 1)						
4 = UR						
6 = Viton						
<b>Housing /</b>						
(all ranges - refer to table 1)						
1 = steel zinc plated						
2 = stainless steel 1.4305						
3 = stainless steel 1.4571						
4 = brass						
<b>Protective cover /</b>						
0 = none						
1 = NBR 55° Sh for Operating ranges 1-4						
2 = NBR 55° Sh for Operating ranges 5						



# Dimensions in mm:



