

OEM compact pressure switch Socket wrench mounting Model PSM01

WIKA data sheet PV 34.81

Applications

- Hydraulics and mobile hydraulics
- Pneumatics
- Plastics injection moulding machines
- General machine building and plant construction
- Media: Compressed air, neutral and self-lubricating fluids, neutral gases

Special features

- High reproducibility
- Compact design
- Setting ranges -0.85 ... -0.15 bar and from 0.2 ... 2 bar to 40 ... 400 bar
- Long service life due to high-quality micro switch
- Socket wrench mounting



OEM compact pressure switch, socket wrench mounting, model PSM01

Description

Model PSM01 screw-in pressure switches in a diaphragm or piston variant open or close a circuit, depending on whether the pressure is dropping or rising. An adjustment screw enables easy and convenient on-site setting of the required switch point. Optionally, WIKA offers its customers the factory setting of the switch point.

The model PSM01 pressure switch is suitable for applications where compressed air, neutral and self-lubricating fluids as well as neutral gases are used.

The high reproducibility of the switch point of $\pm 2\%$ and the optional socket wrench mounting make this switch interesting for both OEM and small customers.

Standard version

Case

Steel, galvanised

Reproducibility

±2 % of full scale value

Permissible temperature

Ambient: -20 ... +80 °C

Medium: -20 ... +80 °C

Process connection

Steel, galvanised

G 1/8, G 1/4, 1/8 NPT, 1/4 NPT, R 1/8 or M10 x 1

Measuring element

Diaphragm or piston with compression spring

Sealing

Diaphragm: NBR or EPDM

Piston: PTFE (dynamic) and NBR, EPDM or Viton® (static)

Viton® fluoroelastomer is a registered trademark of DuPont Performance Elastomers.

Switch contacts

High-quality snap-action switch, self-cleaning

Switching function

Selectable: Normally open, normally closed, change-over contact

Electrical rating

Current utilization ¹⁾	Voltage, Current	
Resistive load AC-12, DC 12	AC 48 V, 2A	DC 24 V, 2A
Inductive load AC-14, DC 14	AC 48 V, 2A	DC 24 V, 1A

1) per DIN EN 60947-1

Electrical connection

Blade terminal FASTON 3 x 6.3 x 0.8

Switching frequency

max. 100/min

Service life

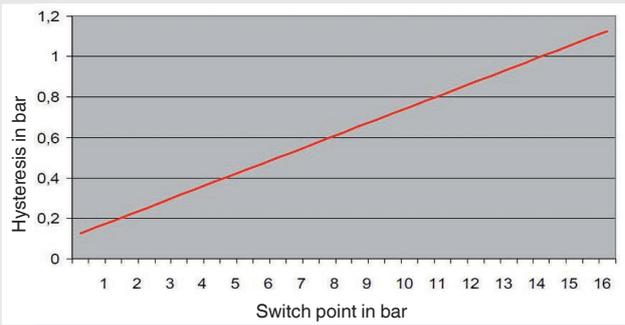
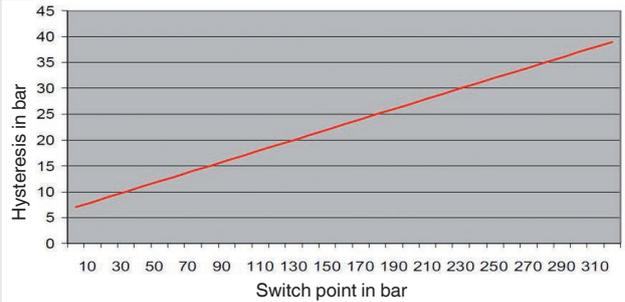
> 10⁶ switching cycles

Ingress protection

IP00 (IP67 with M 12 x1 ²⁾, Deutsch DT04-2P ²⁾ or cable)

2) The stated ingress protection (per IEC/EN 60529) only applies when plugged in using mating connectors that have the appropriate ingress protection.

Setting ranges, max. working pressure, measuring principle, hysteresis

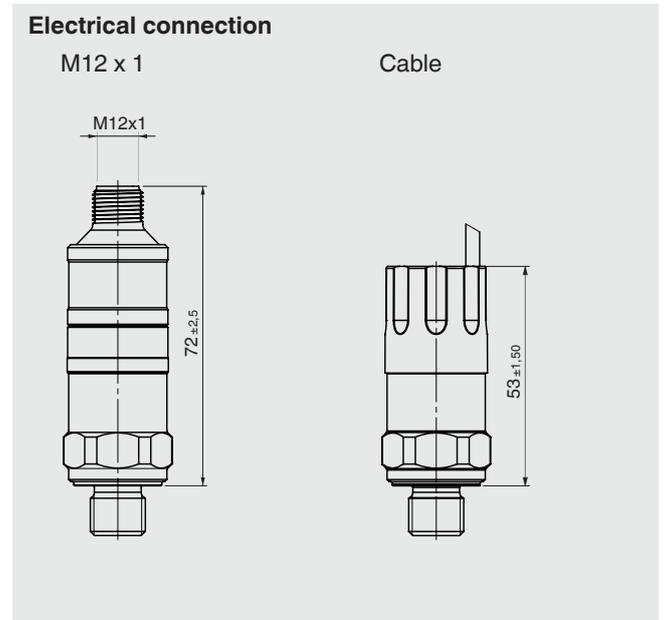
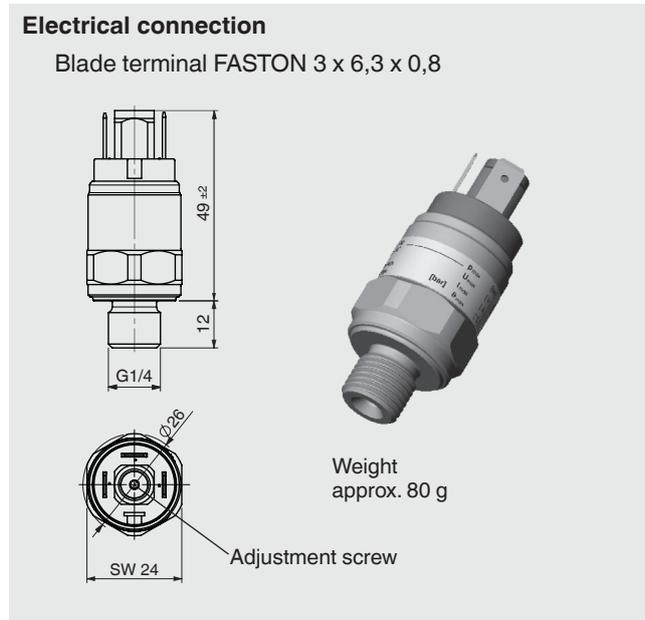
Setting range in bar	Max. working pressure in bar	Measuring principle	Hysteresis
0,2 ... 2	60	Diaphragm	
0,5 ... 8			
1 ... 16			
10 ... 30	350	Piston	
10 ... 80			
10 ... 160			
20 ... 250			
30 ... 320			
40 ... 400	420		

Options

- Factory setting of the switch point
- Case and process connection from stainless steel
- Other materials on request
- Electrical connection M12 x 1, Deutsch DT04-2P or cable
- Permissible ambient and medium temperature
-30 ... +100 °C

Dimensions in mm

Standard version



Ordering information

Model / Setting range / Switching function / Process connection / Sealing / Electrical connection / Options

© 2013 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
The specifications given in this document represent the state of engineering at the time of publishing.
We reserve the right to make modifications to the specifications and materials.

