# OEM compact pressure switch With settable hysteresis Model PSM02

WIKA data sheet PV 34.82

# **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 from 0.2 ... 2 bar to 40 ... 400 bar
- Long service life due to high-quality micro switch
- Settable hysteresis



OEM compact pressure switch, with settable hysteresis, model PSM02

## **Description**

Model PSM02 screw-in pressure switches in a diaphragm or piston variant open or close a circuit, depending on whether the pressure is dropping or rising. Two adjustment screws enable easy and convenient on-site setting of the required switch point and hysteresis. Optionally, WIKA offers its customers the factory setting of switch point and hysteresis.

Model PSM02 mechanical pressure switches are employed wherever compressed air, neutral and self-lubricating fluids or neutral gases are used and a precisely set hysteresis is needed.

The high reproducibility of the switch point of  $\pm 2$  % and the settability of the hysteresis makes the model PSM02 pressure switches interesting for all customers who place a value on precision as well as an attractive price.



## 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)	Current	Voltage	Frequency
AC-12	4 A	AC 250 V	50 / 60 Hz
AC-14	1 A	AC 250 V	50 / 60 Hz
DC-12	2 A	DC 24 V	-
DC-14	0,5 A	DC 24 V	-

1) per DIN EN 60947-1

#### **Electrical connection**

Angular connector DIN 175301-803 A

#### Switching frequency

max. 100/min

#### Service life

> 2 x 10<sup>6</sup> switching cycles

#### Ingress protection

IP 65 (IP 67 with electrical connection M12 x 1 or cable)

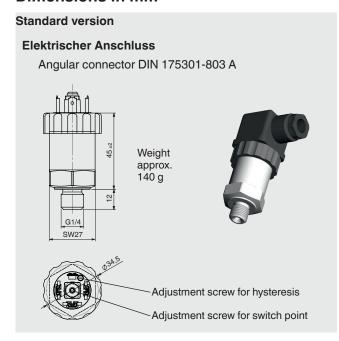
# Setting ranges, max. working pressure, measuring principle, hysteresis

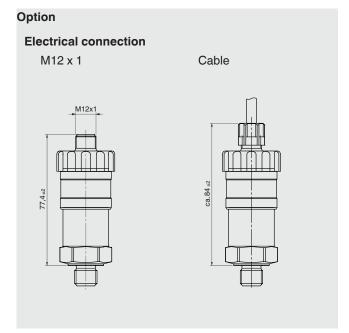
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Setting range in bar	Max. working pressure in bar	Measuring principle	Hysteresis	
0,2 2	60	Diaphragm	Example: With a switch point of 4 bar, a switch-	
0,5 8			of 4 bar, a switch-back difference (hysteresis) of a minimum 0.5 bar to a maximum of 1.5 bar can be set.	
1 16			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  Switch point in bar	
10 30	350	Piston	70	
10 80			Example: With a switch point	
10 160			of 100 bar, a switch-back difference	
20 250			minimum 18 bar to a maximum of 28 bar	
30 320			can be set.	
40 400	420		10 40 70 100 130 160 190 220 250 280 310 Switch point in bar	

# **Options**

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

#### **Dimensions in mm**





#### **Ordering information**

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

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