OEM compact pressure switch
Case in block design
Model PSM03

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
- High vibration and shock resistance
- Setting ranges from 0.2 … 2 bar to 40 … 400 bar
- Long service life due to high-quality micro switch
- Precise switch point setting with adjustment knob

OEM compact pressure switch, case in block design, model PSM03

Description

Model PSM03 mechanical pressure switches in a diaphragm or piston variant open or close a circuit, depending on whether the pressure is dropping or rising. An adjustment knob enables easy, convenient and continuous setting of the required switch point. Optionally, WIKA offers its customers the factory setting of the switch point.

Model PSM03 mechanical pressure switches are employed wherever compressed air, neutral and self-lubricating fluids or neutral gases are used and customers, due to their spatial conditions, have special requirements regarding the installation of the pressure switch.

The high reproducibility of ±2 % of the switch point and the setting via the adjustment knob is interesting for customers for whom precision plays an important part. In addition, the individual orientation of the pressure switch makes the model PSM03 attractive for customers who set value on the adaptation of the switch to their specific space conditions.

Standard version

Case
Zinc diecast, block design

Reproducibility
±2 % of full scale value

Permissible temperature
Ambient: -20 … +80 °C
Medium: -20 … +80 °C

Process connection
Zinc diecast or steel, galvanised
- Vertical flange ISO 16873
- Horizontal flange
- G 1/4 (female)
- G 1/4 (male)

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

Switching power
Switching voltage: DC / AC 24 ... 250 V
Switching current: 5 mA ... 6 A

Electrical connection
Angular connector DIN 175301-803 A or M12 x 1

Switching frequency
max. 100/min

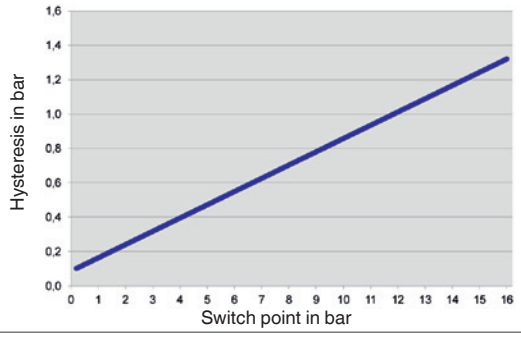
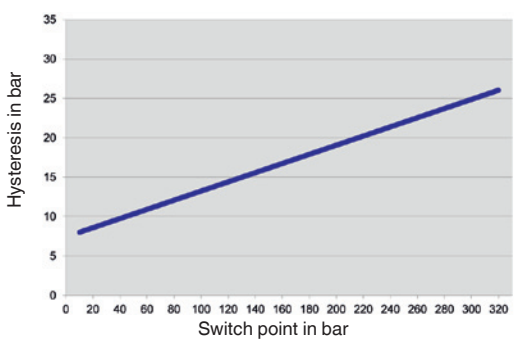
Service life
> 5 x 10^6 switching cycles

Ingress protection
IP 65 (IP 67 with electrical connection M12 x 1)

Options

- Factory setting of the switch point
- Other process connection
- Other materials
- Permissible ambient and medium temperature -30 ... +100 °C

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

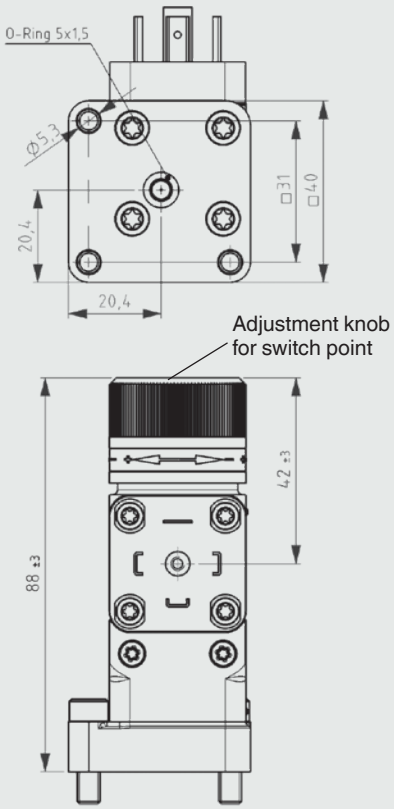
Setting ranges in bar	Max. working pressure in bar	Measuring principle	Hysteresis	
0.2 ... 2	60	Diaphragm		Example: At a switch point of 4 bar the hysteresis is 0.4 bar.
0.5 ... 8				
1 ... 16				
10 ... 30	350	Piston		Example: At a switch point of 100 bar the hysteresis is 12 bar.
10 ... 80				
10 ... 160				
20 ... 250				
30 ... 320				
40 ... 400	600			

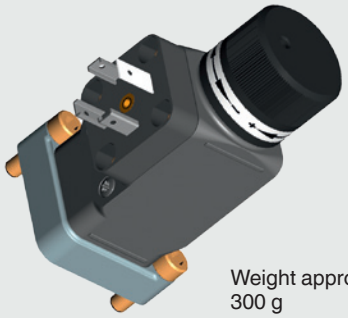
Dimensions in mm

Standard version

Process connection vertical flange ISO 16873

Electrical connection angular connector
DIN 175301-803 A

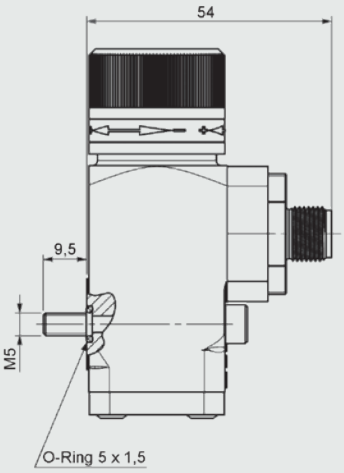




Weight approx. 300 g

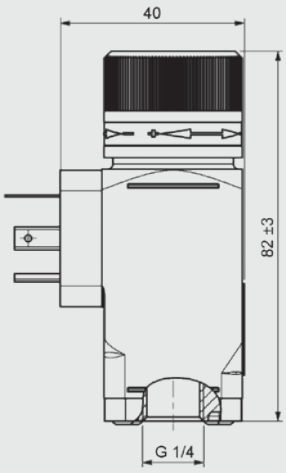
Process connection horizontal flange

Electrical connection M12 x 1



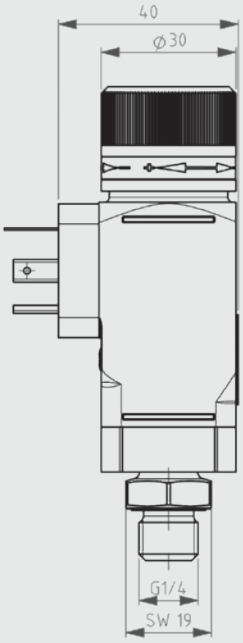
Process connection G 1/4 (female)

Electrical connection angular connector
DIN 175301-803 A



Process connection G 1/4 (male)

Electrical connection angular connector
DIN 175301-803 A



Ordering information

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

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. (+49) 9372/132-0
Fax (+49) 9372/132-406
E-mail info@wika.de
www.wika.de