

# Pressure switch mechanical for industrial applications With settable differential Model PSM-520

WIKA data sheet PSM-520

## Applications

- Automatic start/stop of pump
- Water treatment filtration system
- Fire fighting
- Lubrication oil skids

## Special features

- Bellows actuated
- Compact and robust
- Reliable and cost-effective
- Field adjustable



Pressure switch mechanical, model PSM-520

## Description

The model PSM-520 pressure switch is an electromechanical instrument that senses changes in pressure and provides electrical on-off contact at predetermined pressure values.

The PSM-520 may be used to energise an alarm or directly control the process by cycling pumps, shifting valves etc. In an alarm application, the switch supports valuable equipment by signalling an alarm. In direct control applications, the switch can be linked electrically to other equipment.

PSM-520 pressure switches are designed for use with oil, water, air, steam and other non-corrosive pressure media. They are not suitable for use with refrigerant gases. This pressure switch is cost-effective and used in a wide variety of applications such as pumps, compressors, turbines, lubrication systems and condensers.

## Standard version

### Switch enclosure

Cover: ABS, plastic

Housing: Steel, galvanised

### Repeatability

2 % of full scale value

### Permissible ambient temperature

-20 °C ... +70 °C

### Permissible medium temperature

-20 °C ... +100 °C

### Process connection

Steel, tin plated

■ G 1/4" (female)

■ G 1/4" (male)

### Measuring element

Phosphor bronze bellows, CuSn6 (EN 1652)

### Pressure connector

Free cutting steel (EN1A, EN 10277-3)

### Switch contacts

One SPDT contact system

### On-off differential

Adjustable

### Electrical rating

■ AC-1: 10A, 230V as per EN 60947-1/5

■ AC-15: 6A, 230V as per EN 60947-1/5

### Electrical entry

Rubber grommet suitable for Ø 6 ... 14 mm cable

### Ingress protection

IP33 (unit must be mounted on a flat surface and all unused holes covered)

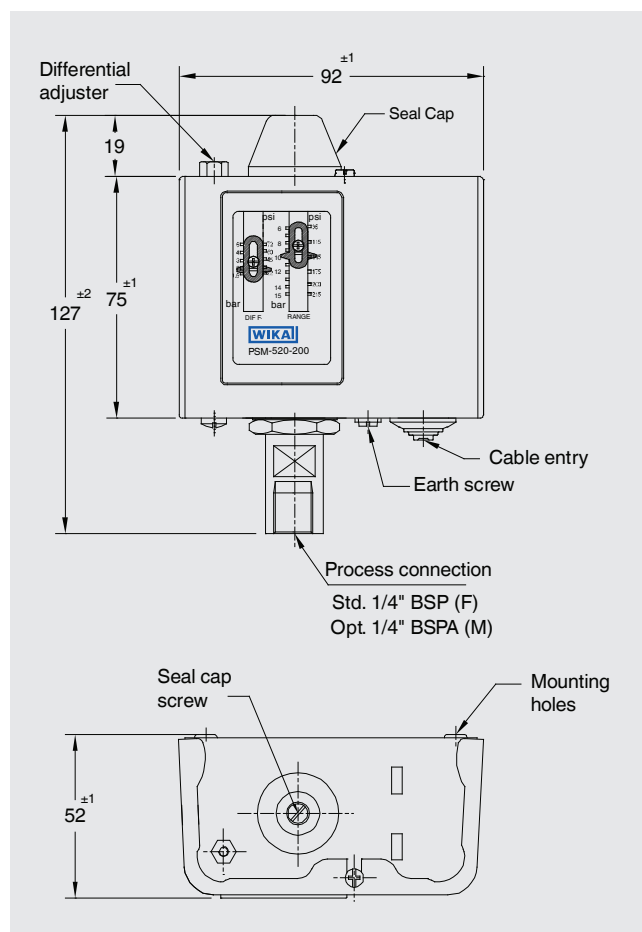
### Mounting

Direct, wall

### Conformity

Generally to BS:6134:1991

## Dimensions in mm



## Setting range

Range		Settable Range		Differential		Max. pressure	
PSI	bar	PSI	bar	PSI	bar	PSI	bar
0 ... 70	0 ... 5	7 ... 70	0.5 ... 5	6 ... 55	0.4 ... 4	230	16
0 ... 100	0 ... 7	10 ... 100	0.7 ... 7	9 ... 85	0.6 ... 6	230	16
(-)6 ... 100	(-)0.4 ... 7	4 ... 100	0.3 ... 7	9 ... 85	0.6 ... 6	230	16
85 ... 215	6 ... 15	106 ... 215	7.3 ... 15	20 ... 70	1.4 ... 5	450	32
85 ... 425	6 ... 30	131 ... 425	9 ... 30	45 ... 115	3.1 ... 8	610	42

Reset point (set point minus differential) should be within the range limits.

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