

Pressure switch mechanical Model PSM-520

Switzer data sheet PSM-520



Applications

- Automatic start/stop of pump
- Water treatment filtration system
- Chillers (water/air cooled)
- 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 electro mechanical 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: Steel, powder coated
Housing: Steel, galvanised

Repeatability

±2 % of full scale value

Permissible ambient temperature

-25 °C ... +70 °C

Permissible medium temperature

-20 °C ... +70 °C

Process connection

- 1/4" BSP(F)
- 1/4" BSP(M)
- Optional process connection available on request

Measuring element

Phosphor bronze bellows

Pressure connector

Free cutting steel

Switch contacts

One SPDT contact system

On-off differential

Adjustable

Electrical rating

- AC-1: 10A, 230V
- AC-15: 6A, 230V

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)

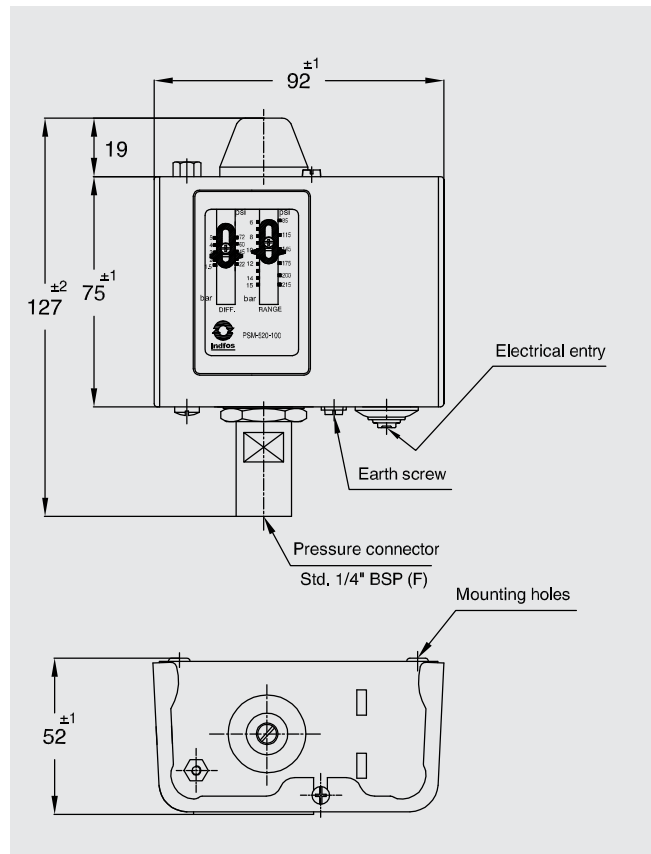
Mounting

Direct, wall

Conformity

Generally to BS:6134:1991

Dimensions in mm



Ordering matrix

Model	Range	Settable Range	Differential	Max. pressure
	PSI	PSI	PSI	PSI
PSM-520-70	0 ... 70	7 ... 70	6 ... 55	230
PSM-520-100	0 ... 100	10 ... 100	9 ... 85	230
PSM-520-101	(-) 6 ... 100	4 ... 100	9 ... 85	230
PSM-520-200	85 ... 215	108 ... 215	22 ... 72	450
PSM-520-400	85 ... 425	131 ... 425	45 ... 115	610

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

Ordering information

Model / Process connection

© 2018 Switzer Process Instruments Pvt. Ltd., 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.



Switzer Process Instruments Pvt. Ltd.
128 SIDCO North Phase, Ambattur Estates,
Chennai 600 050
Tel. +91 44 2625 2017 / 2018 / 4991 / 4324
sales@switzerprocess.co.in
www.switzerprocess.co.in

Works
C-123, Site No.1, Industrial Area
Bulandshahar Road, Ghaziabad 201 009