

Pressure switch mechanical Model PSM-550

Switzer data sheet PSM-550

Applications

- Pumps, filters
- Vacuum brakes
- Lubrication system, hydraulic system
- HVAC
- Circuit breakers
- Heat exchanger, water treatment

Special features

- Wide adjustable range
- Adjustable on-off differential
- Sturdy snap action switch
- Repeatability $\pm 1\%$
- Weatherproof to IP67



Pressure switch mechanical, model PSM-550

Description

PSM-550 pressure switches utilise seamless bellows as the sensing element. Simplicity of design and easy of installation has been stressed for reliable use, even in applications where shock and vibrations are present. The sensing element is suitable for a variety of process fluids.

PSM-550 switches have an excellent record backed by our responsive manufacturing facility. Special application assistance is always available.

Applications include pumps, compressors, filters, evaporators, heat exchangers, lubrication systems, hydraulic systems, marine equipment, heating and air conditioning equipment, turbines, generators and circuit-breakers etc.

Standard version

Switch enclosure

Cover: ABS, plastic
Housing: Polyester

Repeatability

±1 % of full scale value

Permissible ambient temperature

70 °C

Permissible medium temperature

- 70 °C for code 11 and 41
- 170 °C for code 44 and 22

Process connection

- 3/8" BSP(M)

Measuring element

- Bellows
- Nitrile diaphragm for PSM-550-M1

Pressure connector

- Brass (standard)
- Mild steel for PSM-550-M1 (standard)
- Stainless steel

Gasket

Process connection: Nitrile
Cover: Silicone

Switch contacts

One SPDT contact system

On-off differential

Adjustable

Electrical rating

10A resistive, 4A inductive AC 230 V

Electrical entry

1/2" NPT(F)

Ingress protection

IP67

Mounting

Direct online

Conformity

Generally to BS:6134:1991

Ordering matrix

Type	Range in bar	Differential in bar		Maximum test pressure in bar	
		Contact system/ S type microswitch	D type microswitch	11	41
PSM-550-C1	(-) 0.8 ... 5	0.5 ... 2	0.5 ... 2	15	25
PSM-550-V1	(-) 1 ... 0	0.09 ... 0.4	0.18 ... 0.49	7	7
PSM-550-B1	0.1 ... 1.1	0.07 ... 0.16	0.14 ... 0.23	7	7
PSM-550-B2	0.2 ... 3	0.12 ... 0.75	0.25 ... 1.1	7	7
PSM-550-B3	0.2 ... 6	0.25 ... 1.2	0.5 ... 1.45	15	25
PSM-550-B4	1 ... 10	0.3 ... 1.3	0.6 ... 1.6	16	25
PSM-550-B5 ★	2 ... 17	0.3 ... 2	0.6 ... 2.3	---	25
PSM-550-B6	4 ... 17	1.2 ... 4	2.4 ... 5.2	25	25
PSM-550-B7	10 ... 30	1 ... 4	2.0 ... 5.0	45	45

Type	Range in cmWC	Differential in cmWc		Maximum test pressure in bar	
		Contact system/ S type microswitch	D type microswitch	NC	41
PSM-550-M1	0 ... 300	10 ... 50	20 ... 60	0.5	---

★ PSM-550-B5 available only with 304 stainless steel bellows with brass pressure connector.

Ordering matrix continued

Sensing element and pressure connector

- 11** PB bellows with brass pressure connector (standard)
- 41** 304 SS bellows with brass pressure connector
- 44** 304 SS bellows with 304 SS pressure connector
- 22** 316 SS bellows with 316 SS pressure connector (for model PSM-550-B3, B4, B5 and B6 only)
- NC** Nitrile diaphragm with mild steel pressure connector (for model PSM-550-M1 only)

Contact version

- C** One SPDT contact system – 10A resistive 4A Inductive AC 230 V, (standard)
- S** One SPDT microswitch – 15A resistive AC 250 V 0.5A 110V / 0.25A 220V / 8A 24V:DC-resistive 0.2A 110V / 0.10A 220V / 7A 24V:DC-Inductive
- D** DPDT microswitch, 10A AC 125 / 250 V, 2A AC 480 V, 0.25A DC 250 V

Switch enclosure

- D** ABS, plastic cover with polyester housing, weatherproof to IP67 as per IS/IEC:60529-2001 (standard)
- A** Aluminium, powder coated cover with Die cast aluminium housing, weatherproof to IP66 as per IS/IEC:60529-2001

Model Number to be ordered as below



Example: **PSM-550-B4-41-S-A**

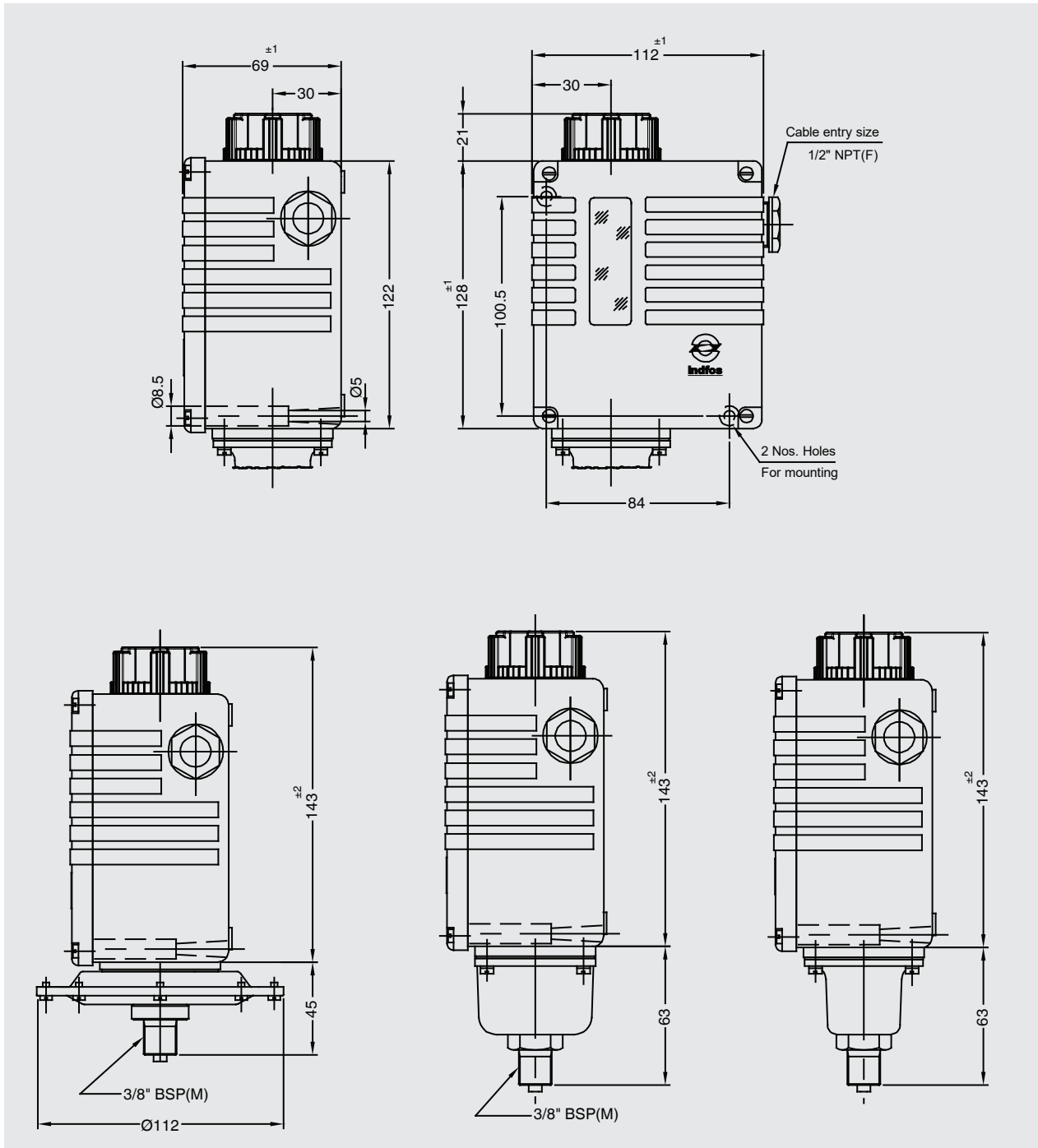
Type PSM-550-B4 (range 1 to 10 bar)

304 SS bellows with brass pressure connector

SPDT microswitch 15A resistive AC 250V

Aluminium, powder coated cover with Die cast aluminium housing, weatherproof to IP66 as per IS/IEC:60529-2001

Dimensions in mm



Ordering information

Type / Sensing element and pressure connector / Contact version / Switch enclosure

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