

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
Dough mould compound (DMC) enclosure with ABS cover

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

Wetted parts
■ Phosphor bronze (standard)
■ Mild steel for PSM-550-M1 (standard)
■ Stainless steel

Switch contacts
One SPDT contact system

Switching function
Selectable: Normally open, normally closed change-over contact

On-off differential
Adjustable

Electrical rating
10A resistive, 4A inductive AC 230 V

Electrical connection
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	1.2 ... 4.0	25	25
PSM-550-B7 ★	10 ... 30	1 ... 4	2.0 ... 5.0	---	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-B7 available only with 304 stainless steel bellows with brass wetted parts.

Ordering matrix continued

Sensing element and wetted parts

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

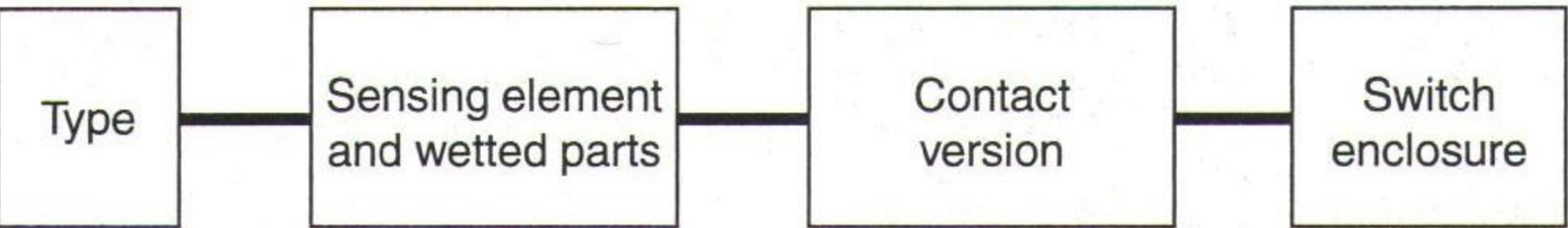
Contact version

- 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 - resistive 0.2A 110V / 0.10A 220V / 7A 24V - Inductive
- D DPDT microswitch, 10A AC 125 / 250 V, 2A AC 480 V, 0.25A AC 250 V

Switch enclosure

- D DMC enclosure, weatherproof to IP67 as per IS/IEC:60529-2001 (standard)
- A Die cast aluminium housing, weatherproof to IP67 as per IS/IEC:60529-2001

Model Number to be ordered as below



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

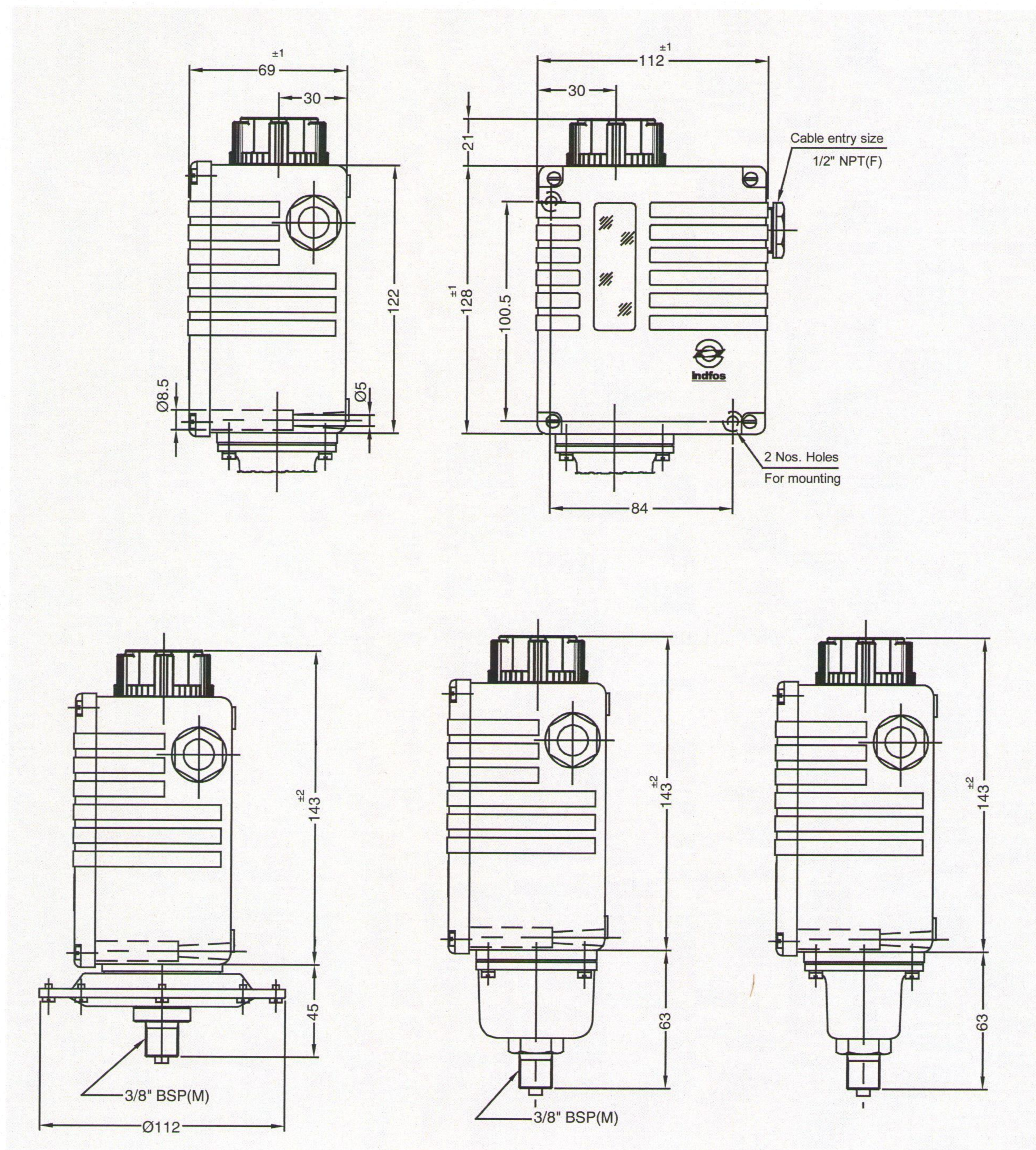
Type PSM-550-B4 (range 1 to 10 bar)

304 SS bellows with brass wetted parts

SPDT microswitch 15A resistive AC 250V

Die cast aluminium housing, weatherproof to IP67 as per IEC:60529-2001

Dimensions in mm



Ordering information

Type / Sensing element and wetted parts / Contact version / Switch enclosure

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