PS-S700 MECHANICAL PRESSURE SWITCH

TECHNICAL CHARACTERISTICS:



- ☑ Users can adjust the alarm point by themselves
- ☑ Smart size, compact structure, easy wiring
- ☑ NO NC double contacts, the contacts are silver-plated and the capacity is large
- ☑ Wide measurement range, suitable for various scenarios
- ☑ Shock-resistant structural design, high repeatability, high reliability

The mechanical pressure switch is a pressure switch whose pure mechanical deformation leads to micro-switch action. It has a built-in diaphragm type or piston type sensing element, which is used to convert physical quantities such as air pressure or hydraulic pressure into an electrical switch signal.

The mechanical pressure switch adopts 304 stainless steel joint and plastic shell, which is characterized by convenient use, stable operation and long mechanical life. The user can adjust the action point through the Allen wrench with the product. The product will preset an action point before leaving the factory, which is convenient for customers to use directly.

This series of products are widely used, especially suitable for pressure control and protection of fire-fighting equipment, automation equipment, mining machinery and other application machinery.

APPLICATION:

◇Hydraulic and Pneumatic Systems
◇Fire Equipment
◇Electromechanical equipment automation
◇Automated machinery

SPECIFICATION:

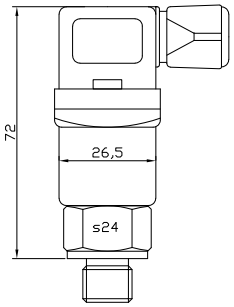
Range	For the detailed range, see the following (product setting range)
Overload pressure	＞300bar(setting range0.3-50bar); >600bar(setting range: 50-400bar)
Operation point setting	NO NC double contacts 1(COM), 2(NC), 3(NO)
Accuracy	5% setting value
Long term stability	Better than 1%FS/year
Electrical contact	Silver-plated contact
Setting method	Inner hexagon wrench (standard accessory for the product)
Operation temperature	-20~80°C
Action hysteresis	Around 30% of the set value
Mechanical life	＞1 million times
Testing medium	Non-corrosive gas liquids such as water, oil and air
Connection	M20*1.5, G1/2, G1/4(customized)
Connection materials	304SS
Stroke	90 times/minute
Hysteresis	15~25% setting value
Electrical characteristics	Max load: 250VAC, 1.5A 30VDC, 3A

PS-S700

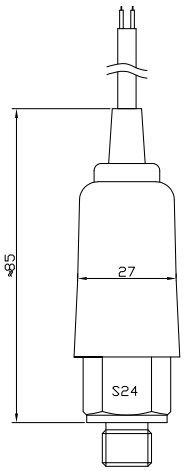
MECHANICAL PRESSURE SWITCH

SIZE:

UNIT:mm



DIN



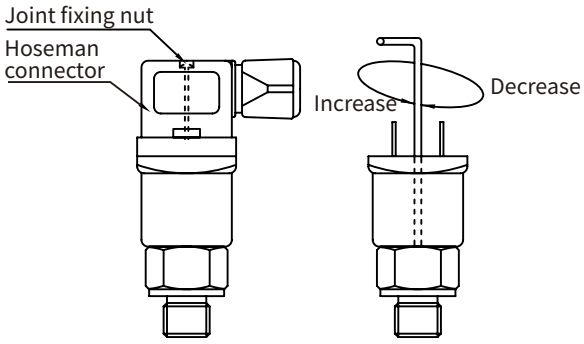
STRAIGHT OUT

PRODUCT SETTING RANGE:

Setting range(bar)	Compressed material	Max Pressure resistance
1(0.3...3bar)	Diaphragm	25
2(1...10bar)	Diaphragm	25
3(5...50bar)	Piston	300
4(30...100bar)	Piston	300
5(40...200bar)	Piston	300
6(50...400bar)	Piston	600

Note:1. Please specify the connection when ordering
2. The straight-out type is a single-point switch, which needs to be marked as NO or NC
3. EX shell can be added, which needs to be specified
4. Adjustable within the setting range, generally the factory default action value

ADJUSTMENT METHOD



Step 1: Loosen the Hossman connector with a screwdriver, fix the thread and remove the Hossman connector and the nut head (do not rotate the Hossman connector left and right when removing, so as not to break the internal circuit
Step 2: Refer to the picture above to adjust the pressure action point size with an wrench, increase clockwise and decrease counterclockwise
Note: Adjust the operation point, please pay attention to fine-tuning

SELECTION GUIDE:

PS – S700 – 1 – B(U) – 7 – M20 – B – T3 –

MODEL:
S700

Setting range:
1 (0.3-3 bar) 4 (30-100 bar)
2 (1-10 bar) 5 (40-200 bar)
3 (5-50 bar) 6 (50-400 bar)

Operation point:
Xb (X bar)
-(U) Increase pressure
-(D) Decrease pressure

Acc:
7(5%FS)

Connection:
M20(M20*1.5) G12(G1/2)
M14(M14*1.5) G14(G1/4)
M9(Customized) P14(PT1/4)
N14(NPT1/4)

Outlet definition:
B1(DIN)
B2(Straight)

Operation temperature:
T3(-20~80°C)