



Differential Pressure Switch

with adjustable switching pressure for HVAC-Applications



measuring
•
monitoring
•
analysing

SCH-PSB



- Setting range:
20 ... 300 Pa up to
200 ... 1000 Pa
- p_{\max} : 10 kPa
- t_{\max} : +70 °C
- Connection: hose ports



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Applications

Adjustable differential pressure switch for monitoring over-pressure, vacuum and differential pressure of air or other non-combustible, non-aggressive gases. Possible fields of application include:

- Monitoring air filters and ventilators
- Monitoring industrial cooling-air circuits
- Overheating protection for fan heaters
- Monitoring flows in ventilation ducts
- Controlling air and fire-protection flaps
- Frost protection for heat exchangers

Versions

With this pressure switch the switching pressure can be adjusted without a pressure gauge using a scaled adjustment knob. The switching differential can also be adjusted with a screwdriver.

Model	Adjustment range for upper switching pressure [Pascal]	Switching differential set to [Pascal]	Tolerance for upper and lower switching pressure
SCH-PSB-0300	20 ... 300	10	±15%
SCH-PSB-0500	50 ... 500	20	±15%
SCH-PSB-1000	200 ... 1000	100	±15%

Switching pressure specifications apply to vertical installation which is also the recommended position with pressure-pipe connections pointing downwards. If the switches are installed horizontally with AMP connection terminals uppermost, the switching values are approximately 20 Pa higher.

Technical Details

Maximum operating pressure: 10 kPa for all pressure ranges
 Medium: air, non-combustible and non-aggressive gases

Temperature range


Medium and ambient temperature: -20 °C ... +70 °C (limited from +85 °C to +70 °C due to PVC-hose)
 Storage temperature: -40 °C ... +70 °C (limited from +85 °C to +70 °C due to PVC-hose)

Diaphragm material: silicone, tempered at 200 °C ge-tempert, free of gas emissions

Pressure connections: 2 plastic pipe connection pieces (P1 and P2), external diameter 6.0 mm:
 P1 for connection to higher pressure (marked +);
 P2 for connection to lower pressure (marked -)

Housing materials

Switch body: PA 6.6

Cover: PS
 Weight: 150 g
 Mechanical working life: over 10⁶ switching operations.
 Electrical rating: max. 1.0 A (0.4 A) / 250 V_{AC}
 Electrical connections: AMP flat plug 6.3x0.8 mm acc. to DIN 46244 or push-on screw terminals. Cable conduit with cable strain relief.
 Cable entry: cap nut conduit AF20
 Mounting: with fastening lugs
 Arrangement of contacts:  1 Break contact, 2 Operating contact, 3 Power supply line
 Protection: IP 54

Order Details (Example: SCH-PSB-0300)

Model	Pressure ranges [Pascal]
SCH-PSB-...0300	= 20 ... 300
SCH-PSB-...0500	= 50 ... 500
SCH-PSB-...1000	= 200 ... 1000

Accessories included in scope of delivery

2 m PVC hose and 2 plastic tubes made of ABS
 Set consisting of three push-on screw terminals

Dimensions [mm]

