

Differential Pressure Switch

with adjustable switching pressure for HVAC-Applications



measuring • monitoring • analysing

SCH-PSB



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Applications

Adjustable differential pressure switch for monitoring overpressure, 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	20300	10	±15%
SCH-PSB-0500	50500	20	±15%
SCH-PSB-1000	2001000	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

10 kPa for all pressure ranges
air, non-combustible and non- aggressive gases
-20°C+70°C (limited from +85°C to +70°C due to PVC- hose)
-40 °C+70 °C (limited from +85 °C to +70 °C due to PVC- hose)
silicone, tempered at 200 °C ge- tempert, free of gas emissions
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

PA 6.6

pressure (marked –)

Cover: PS Weight: 150 g Mechanical working life: over 10⁶ switching operations. Electrical rating: max. 1.0 A (0.4 A) / 250 V_{AC} AMP flat plug 6.3x0.8 mm acc. to Electrical connections: 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 - 2 NO Protection: IP 54

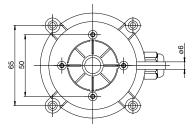
Order Details (Example: SCH-PSB-0300)

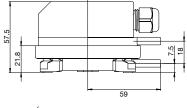
Model	Pressure ranges [Pascal]
	0300 = 20300
SCH-PSB-	0500 = 50 500
	1000 = 2001000

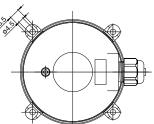
Accessories included in scope of delivery

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

Dimensions [mm]







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Housing materials

Switch body: