

# **Differential Pressure Switch**

with adjustable switching pressure for HVAC-Applications



measuring

monitoring

analysing

# **SCH-PSB**





- Setting range:20...300 Pa up to200...1000 Pa
- p<sub>max</sub>: 10 kPa
- t<sub>max</sub>: +70 °C
- Connection: hose ports



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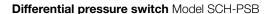
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1





#### **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]		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**

Maximum operating

pressure: 10 kPa for all pressure ranges
Medium: air, non-combustible and nonaggressive gases

Temperature range

Medium and ambient

temperature: -20 °C ... +70 °C (limited from

+85°C to +70°C due to PVC-

hose)

Storage temperature:  $-40\,^{\circ}\text{C} \dots +70\,^{\circ}\text{C}$  (limited from

 $+85\,^{\circ}\text{C}$  to  $+70\,^{\circ}\text{C}$  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  $10^6$  switching operations. Electrical rating: max.  $1.0 \text{ A} (0.4 \text{ A}) / 250 \text{ V}_{AC}$ 

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: M16x1.5

Mounting: with fastening lugs

Arrangement of contacts:

1 Break contact 2 Operating contact

Protection: IP54

# Order Details (Example: SCH-PSB-0300)

Model	Pressure ranges [Pascal]	
	<b>0300</b> = 20 300	
SCH-PSB-	<b>0500</b> = 50 500	
	<b>1000</b> = 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]

