SPD910
Differential Air Pressure Switch

This range of four SPD910 differential air flow switches are intended for use in air handling systems for the monitoring of air ducts, filters and fans.

The enclosure is plastic with a rating of IP54. A set-point adjustment is provided under the clip-on clear plastic cover.

The mounting bracket and tubing is supplied.

DESCRIPTION

See part number table on page 2

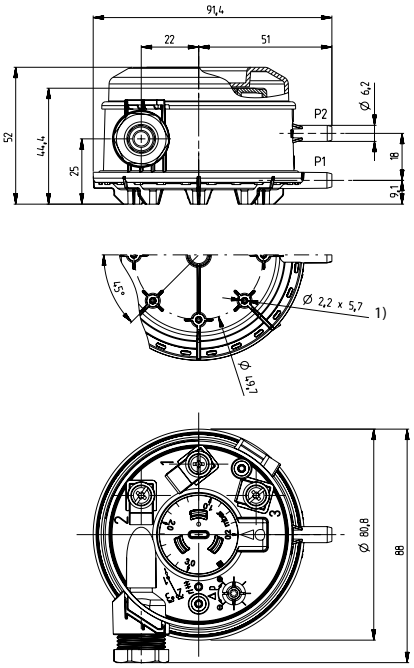
Medium		Air and neutral gases
Pressure Range		0.2 … 50 mbar
Tolerable overload on one side		75 mbar at –30 … 75 °C 50 mbar at –30 … 85 °C
Repeatability	0.2 … 3 mbar	±0.025 mbar
	0.5 … 5 mbar	±0.05 mbar
	1 … 10 mbar	±0.05 mbar
	5 … 20 mbar	±0.05 mbar
	10 … 50 mbar	±0.15 mbar
Switching Load	Resistive Load	5 A at 250 Vac 4 A at 30 Vdc
	Inductive	0.8 A at 250 Vac 0.7 A at 30 Vdc
Materials in contact with the medium		Case: PC 10% GF Cover: PC Diaphragm: Silicone LSR tempered 200 °C, free of gas emissions
Temperature	Medium and ambiance	–30 … +85 °C -22.. +185°F
	Storage	–40 … +85 °C -40.. +185°F
Service life		Mechanical > 10^6 switching cycles
Electrical connection		Screw terminals or AMP connectors 6.3 mm or 4.8 mm according to DIN 46244 Cable gland PG11 with cable strain relief
Protection standard	Without Cover	IP 00
	With Cover	IP 54
Pressure connections		Pipe ø 6.2 mm Adapter inside thread G1/8
Tests / Admissions		ETL CE conformity DVGW according to DIN 1854 EU conformity: Low voltage directive 73/23/EWG Gas appliance directive: 90/396/EWG CE 0085 A P0918

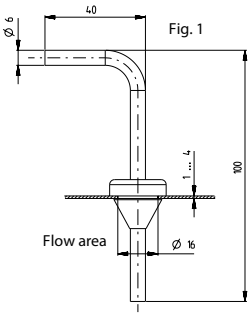
Schneider Electric

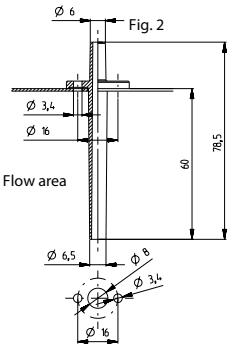
PART NUMBER

Part Number	Model Number	Description	Replaces
004701090	SPD910-2000Pa	Switch Pres Air SPD910-2000Pa	–
004701080	SPD910-1000Pa	Switch Pres Air SPD910-1000Pa	–
004701070	SPD910-500Pa	Switch Pres Air SPD910-500Pa	SPD900-600Pa
004701060	SPD910-300Pa	Switch Pres Air SPD910-300Pa	SPD900-200Pa

DIMENSIONS







FUNCTION

The pressure switch has two separate pressure chambers, each with its own connection. The switch operates when the setpoint is either exceeded or not reached.

Vacuum Monitoring
Connect the pressure switch via P2. Do not connect P1. Leave P1 open. Pake sure that dirt can not get into P1.

High Pressure Monitoring
Connect the pressure switch via Pa. Do not Connect P2. Leave P2 open. Make sure that dirt can not get into P2.

Filter Monitoring
Connect P1 before the filter and P2 after it.

Fan Monitoring
Connect P1 after the fan (in blowing direction) and P2 before the fan.