

# SUCO-DIAPHRAGM PRESSURE SWITCHES SW 24 SCREW TERMINAL OR PUSH-ON TERMINAL

normally open or normally close

Voltage max. 42 V



**Function:** The pressure switch monitors a set pressure value. It opens or closes an electric circuit when a certain (adjustable) pressure is reached.

**Features:** Switching point easy to adjust, also available with factory preset switching point, with changeover switch (SPDT) and silver contacts

Type	166				Options
Adjustment range in bar (tolerance at room temperature)	0,1-1 bar (±0,2 bar)	1-10 bar (±0,5 bar)	10-20 bar (±1,0 bar)	20-50 bar (±2,0 bar)	
Case material	zinc plated steel				others on request
Connection	Screw terminal M3		Push-on terminal		others on request
Thread	M10x1con., M12x1,5, G1/4, NPT 1/8, G1/8, M10x1 cyl.				others on request
Voltage	max. 42V				
Current rating	max. 4 A				
Switching frequency	< 200 / min <sup>-1</sup>				
Mechanical life expectancy	10 <sup>6</sup> operations (at set points up to 50 bar)				
Switching capacity	100 VA				
Vibration resistance	10 g / 5-200 Hz sine				
Shock resistance	294 m/S <sup>2</sup> ; 14 ms half sine				
Protection	IP65, plugs IP00				
Diaphragm	NBR: hydraulic oil, machine oil, heating oil, air, nitrogen EPDM: brake fluid, ozone, acetylene, hydrogen FKM: hydraulic fluids (HFA, HFB, HFD), petrol/gasoline				other materials (Silicone, HNBR) on request
Temperature range	NBR: -40°C up to +100°C EPDM: -30°C up to +120°C FKM: -5°C up to +120°C				
Overpressure resistance <sup>1)</sup>	300 bar				

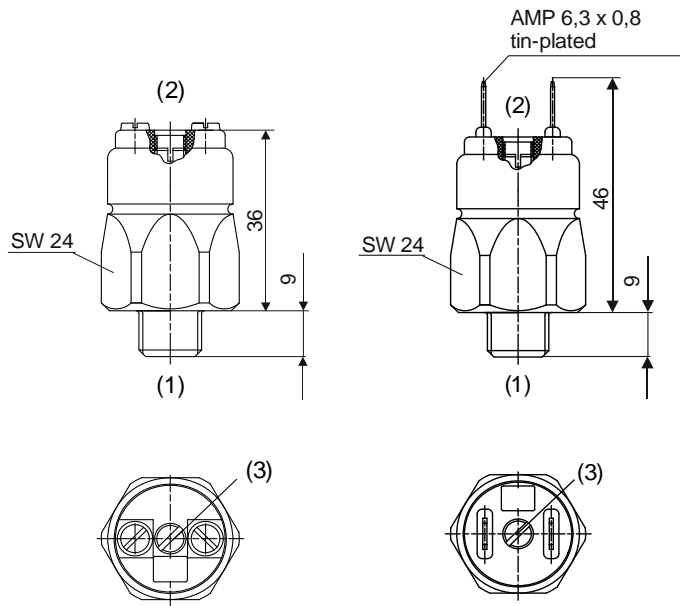
<sup>1)</sup> Static value. Dynamic value 30 to 50 % lower. The values refer to the hydraulic or pneumatic part of the pressure switch.

## Operating controls and connections

Dimensions in mm

Screw terminal M3

Push-on terminal



(1) Hydraulic / Pneumatic connection

(2) Electrical connection

(3) Adjustment screw

**Note:** The pressure switches can also be supplied preset by the factory.

## Accessories

for all pressure switches keysize 24



**Protection cap**

**with centrally cable transition**

for cable Ø 1,5 - 5 mm

with protection cap

IP54

for voltage up to 42 V



**Protection cap**

**with two cable transition**

for cable Ø 1,7 - 2,2 mm

with protection cap

IP54

for voltage up to 42 V