

# The factory-set differential pressure switch 911.82



## Applications

Factory-set differential pressure switch for monitoring overpressure, vacuum and differential pressure of air or other non-combustible, non-aggressive gases.

Class of control and regulation function: A

Possible fields of application include:

- Monitoring air filters and ventilators
- Overheating protection for fan heaters
- Monitoring flows in ventilation ducts
- Frost protection for heat exchangers

## Versions

Customer specific adjusted values for switching pressure and switching differential.

## Temperature range

Operating temperature from -20°C to +85°C.  
Storage temperature from -40°C to +85°C.

## Switching pressure

Factory setting between 20 ... 1000 Pa.

## Switching differential

Factory setting between 10% ... 20% of the switching pressure, min. 10 Pa.

## Accuracy of the switching pressure @ 20°C

Uncertainty ±10%, min. ±10 Pa.  
Repeatability ±1%, min. ±3 Pa.  
Higher accuracy on request.

## Maximum operating pressure

10 kPa.

## Medium

Air, non-combustible and non-aggressive gases.

## Diaphragm material

Silicone, tempered at 200°C, free of gas emissions.  
Other materials available on request.

## Housing materials

Switch body and cover of plastic.

## Life

Mechanically more than 1 million cycles

## Weight

With cover 94 gr, without cover 82 gr.

## 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 . )

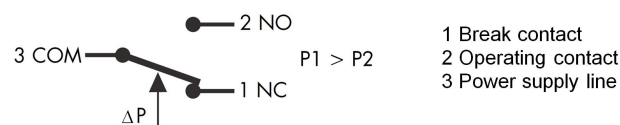
## Electrical rating

Standard version: max. 1.5 A (0.4 A) / 250 VAC  
Low-voltage version: max. 0.1 A / 24 VDC

## Electrical connections

Tab terminal 6.3 mm x 0.8 mm in accordance with DIN 46244 or push-on screw terminals. Cable conduit with cable strain relief.

## Arrangement of contacts



## Protection

IP 20 with protection cap  
IP 00 without protection cap

## Protection class

Protection class II is only met by using a protection cap.

The pressure switch without protection cap is provided for installation in equipment. The construction of the equipment and the type of installation determine the protection class.

## Warning

Read instructions before use. This regulating and control unit must be installed in compliance with the applicable regulations.

## CE Conformity

Each depending on technical version:  
EU Low Voltage Directive; EU RoHS Directive,  
EU Gas Appliances Directive.

## Specifications according to EN1854

Deviation:  $m \pm 15\%$ , min.  $\pm 10$  Pa  
Drift:  $m \pm 15\%$

