

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 $\pm 10\%$, min. ± 10 Pa

Repeatability $\pm 1\%$, 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

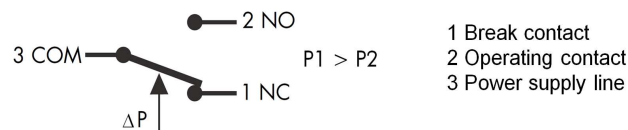
Low-voltage version: max. 0.1 A / 24 VDC

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

IP54 or IP65 with cover, IP00 without cover

Protection class

Protection class II is only met by using a cover.

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

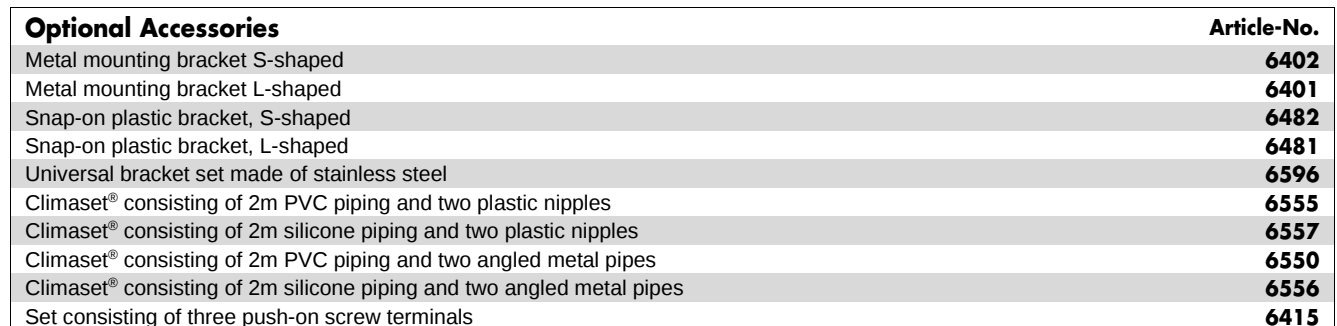
Each depending on technical version:
EU Low Voltage Directive; EU RoHS Directive,
EU Gas Appliances Regulation

Specifications according to EN1854

Deviation: $\leq \pm 15\%$, min. ± 10 Pa

Drift: $\leq \pm 15\%$

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