

## DIFFERENTIAL PRESSURE SWITCHES

### PS Series

Mechanical differential pressure switches for air

The PS series mechanical differential pressure switches offer a cost-effective solution for filter, fan and duct pressure monitoring in building automation systems in the HVAC/R industry. PS series products offer field selectable switching point adjustment and measurement units in Pa.



#### SIMILAR PRODUCTS

- DPI series electronic differential pressure switches
- DPT-R8 series 8-range differential pressure transmitters

#### APPLICATIONS

- PS series devices are commonly used in HVAC/R systems for:
- fan, blower and filter monitoring
  - pressure and flow monitoring
  - valve and damper monitoring

#### MODEL SUMMARY

| Description                  | Model  | Product code | Measurement range (Pa) |
|------------------------------|--------|--------------|------------------------|
| Differential pressure switch | PS200  | 105.001.001  | 20...200 Pa            |
| Differential pressure switch | PS300  | 105.002.001  | 30...300 Pa            |
| Differential pressure switch | PS500  | 105.003.001  | 30...500 Pa            |
| Differential pressure switch | PS600  | 105.004.001  | 40...600 Pa            |
| Differential pressure switch | PS1500 | 105.005.001  | 100...1500 Pa          |
| Differential pressure switch | PS4500 | 105.006.001  | 500...4500 Pa          |

# DIFFERENTIAL PRESSURE SWITCHES

## PS Series

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### SPECIFICATIONS

#### Performance

**Accuracy** (at applied pressure)

At low limit (Typical):

PS200: ± 5 Pa

PS300: ± 5 Pa

PS500: ± 5 Pa

PS600: ± 5 Pa

PS1500: ± 10 Pa

PS4500: ± 50 Pa

**Overpressure:**

Proof pressure: 25 kPa

Burst pressure: 50 kPa

#### Technical Specifications

**Media compatibility:**

Dry air or non-aggressive gases

**Measuring units:**

Pa

**Measurement range:**

PS200: 20-200 Pa

PS300: 30-300 Pa

PS500: 30-500 Pa

PS600: 40-600 Pa

PS1500: 100-1500 Pa

PS4500: 500-4500 Pa

**Environment:**

Operating temperature: -20...60 °C

Storage temperature: -20...85 °C

Humidity: 0 to 95 % rH, non condensing

#### Physical

**Dimensions:**

Case: 105 x 73 x 63 mm

**Weight:**

150 g

**Mounting:**

2 each 4.3 mm screw holes, one slotted

**Materials:**

Case: ABS

Cover: PC

Membrane: Silicone

Duct connectors: ABS

Tubing: PVC

**Protection standard:**

IP54

**Electrical connections:**

3 screw terminals

Wire: 12-24 AWG (0.2-1.5 mm<sup>2</sup>)

**Cable entry:**

Strain relief: M16

Knockout: 16 mm

**Pressure fittings:**

Male Ø 5.0 mm

#### Electrical

Input: 24-250 VAC

Output: NO / NC circuit

Switching differential:

PS200: 20 Pa

PS300: 20 Pa

PS500: 20 Pa

PS600: 30 Pa

PS1500: 80 Pa

PS4500: 250 Pa

#### Conformance

Meets requirements for CE marking:

EMC Directive 2004/108/EC

RoHS Directive 2002/95/EC

Low voltage 73/32/EEC

