

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

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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 mm²)

Cable entry:

Strain relief: M16

Knockout: 16 mm

Pressure fittings:

Male \varnothing 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

