

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

SPECIFICATIONS

Performance

Accuracy (at applied pressure)

At low limit (typical):

PS200: ± 8 Pa

PS300: ± 8 Pa

PS500: ± 8 Pa

PS600: ± 8 Pa

PS1500: ± 20 Pa

PS4500: ± 100 Pa

At high limit (max.):

PS200: ± 15 %

PS300: ± 15 %

PS500: ± 15 %

PS600: ± 15 %

PS1500: ± 15 %

PS4500: ± 15 %

Switching differential (typical):

PS200: 20 Pa

PS300: 25 Pa

PS500: 25 Pa

PS600: 35 Pa

PS1500: 80 Pa

PS4500: 250 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 ø 5.0 mm

Electrical

Input:

24-250 VAC

Output:

NO / NC circuit

Electrical rating, resistive load:

3 A / 250 VAC (PS200: 0.1 A / 250 VAC)

Electrical rating, inductive load:

2 A / 250 VAC (PS200: -)

Conformance

Meets requirements for:

| | CE: | UKCA: |
|-----------|------------|----------------|
| EMC: | 2014/30/EU | S.I. 2016/1091 |
| RoHS: | 2011/65/EU | S.I. 2012/3032 |
| LVD/EESR: | 2014/35/EU | S.I. 2016/1101 |
| WEEE: | 2012/19/EU | S.I. 2013/3113 |

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001 • ISO 14001



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