

PS - Differential pressure switch



PS differential pressure switches are designed for monitoring over and under pressures and pressure differences in systems that handle air and other non-aggressive gases. PS switches offer a cost-effective solution for filter, fan and duct pressure monitoring for building automation systems. The switching point can be adjusted manually.

Differential pressure switches can be used for monitoring filters, fans and dampers, for example.

Technical specifications

| Property | Value |
|-------------------------------|---|
| Measuring range | |
| PS200 | 20200 Pa |
| PS300 | 30300 Pa |
| PS500 | 30500 Pa |
| PS600 | 40600 Pa |
| PS1500 | 1001500 Pa |
| PS4500 | 5004500 Pa |
| Measurement accuracy | |
| PS200 / PS300 / PS500 / PS600 | ±8 Pa at low limit, ±15 % at high limit |
| PS1500 | ±20 Pa at low limit, ±15 % at high limit |
| PS4500 | ± 100 Pa at low limit, ± 15 % at high limit |
| Switching difference | |
| PS200 | 20 Pa |
| PS300 | 25 Pa |
| PS500 | 25 Pa |
| PS600 | 35 Pa |
| PS1500 | 80 Pa |
| PS4500 | 250 Pa |
| Maximum pressure | 50 kPa |
| Pressure connections | Ø5 mm |
| Output | NO/NC, change-over contact |
| PS200 | 250 Vac, 0.1 A, res. |

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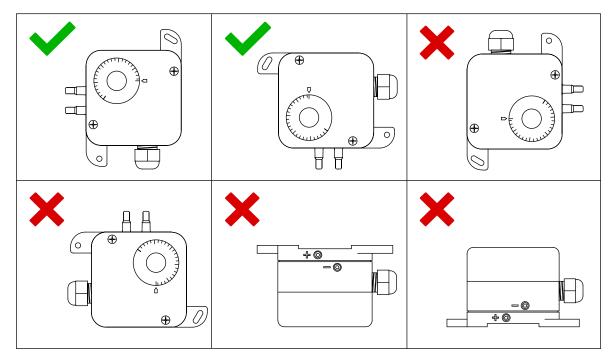
Information is subject to change without prior notice.



Mounting the device

Mount the device on a wall or other flat, vertical surface. Make sure that either the cable gland or the pressure inlets point down.

Select a location that provides as much protection from water splashes (e.g. rain) as possible.





3 (4)

Wiring



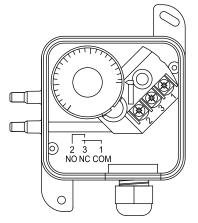
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.



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CAUTION: The product may only be connected to overvoltage category III electricity network according to IEC 60664-1.

CAUTION: Ensure that all covers are closed before connecting supply voltage to the product. Don't remove the covers when the supply voltage is connected.



| 1 | СОМ | |
|---|-----|-----------------------|
| 3 | NC | 250 Vac relay output. |
| 2 | NO | |

The nominal wire terminal screw tightening torque is 1.5 Nm.

Important: Don't use excessive force when tightening the wiring terminal screws.

Ordering information

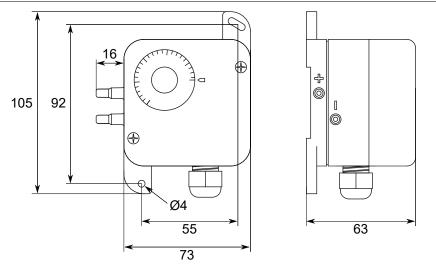
Note: PVC hose (2 m), duct connectors (2 pcs) and screws (M4 x 20 mm, 2 pcs) are included in the product delivery.

| Туре | Product number | Description |
|-------|-------------------|--|
| PS200 | 105.001.061 | Differential pressure switch, 20200 Pa |
| PS300 | 105.002.065 | Differential pressure switch, 30300 Pa |
| PS500 | 105.003.070 | Differential pressure switch, 30500 Pa |
| PS600 | 105.004.063 | Differential pressure switch, 40600 Pa |



| Туре | Product number | Description | |
|--------|-------------------|--|--|
| PS1500 | 105.005.068 | Differential pressure switch, 1001500 Pa | |
| PS4500 | 105.006.050 | Differential pressure switch, 5004500 Pa | |

Dimensions



Supported standards and directives

| Standard | Description | |
|--------------------|--|--|
| 2014/30/EU | Electromagnetic Compatibility (EMC). | |
| 2014/35/EU | Low Voltage Directive (LVD). | |
| 2011/65/EU | Restriction of Hazardous Substances (RoHS2) Directive. | |
| (EU) 2015/863 | Commission Delegated Directive, amending Annex II to Directive 2011/65/EU. | |
| EN 61010-1:2010 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements | |
| EN 61326-1:2006 | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements | |
| EN 50581:2012 | Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances | |
| S.I. 2016 No. 1091 | Electromagnetic compatibility regulations | |
| S.I. 2016 No. 1101 | The electrical equipment (safety) regulations | |
| S.I. 2012 No. 3032 | The restriction of the use of certain hazardous substances in electrical and electronic equipment regulations | |