

# **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	$\pm 100$ Pa at low limit, $\pm 15$ % 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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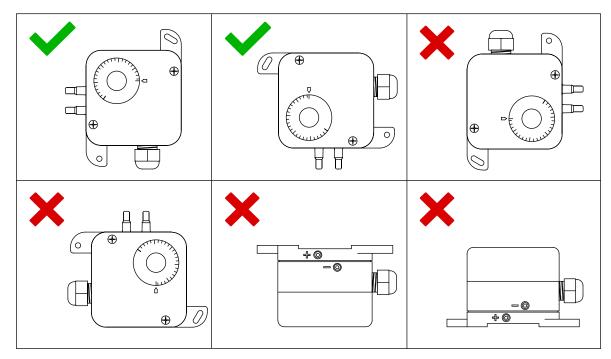
Information is subject to change without prior notice.



### 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



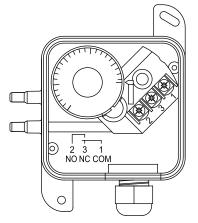
**WARNING:** Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.



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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**

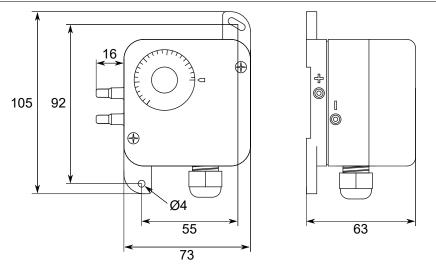
**Note:** PVC hose (2 m), duct connectors (2 pcs) and screws (M4 x 20 mm, 2 pcs) are included in the product delivery.

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	