ADP10 Air Pressure Switch

- Adjusting range: 20 - 300 Pa
- Maximum inlet pressure: 5000 Pa
- Switching hysteresis: 8 - 18 Pa
- Compliant with 73/23/EEC
- IP54 rating
- Kit includes tubing and pitot connections

Application

Pressure switch for air for monitoring positive, negative or differential air or flue gas pressure. When combined with a Duomo interlock system, can be used to prove that adequate ventilation is in place before initiating the gas supply to a kitchen or laboratory.
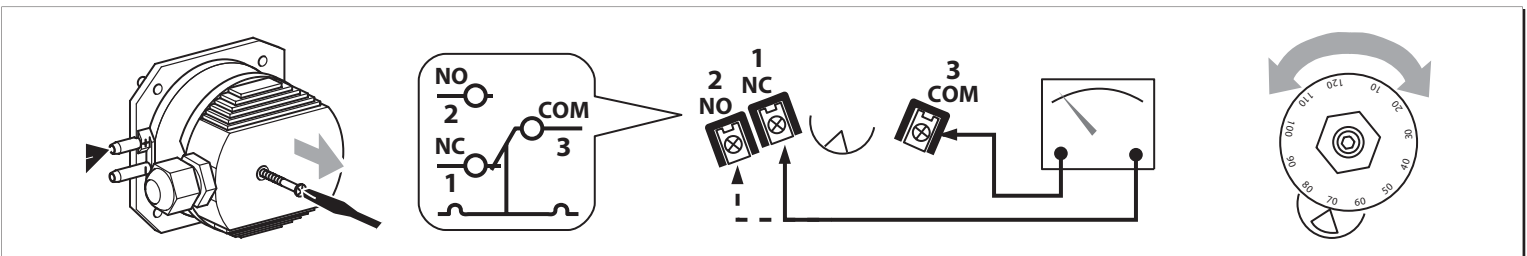
Operation

The ADP10 Air Pressure Switch works by switching over a relay contact when a difference in pressure is present. The pressure at which switching occurs can be set by altering a dial on the face of the ADP10.

Adjusting the switching pressure (p_s)

The switching pressure can be adjusted using the hand setting dial and scale. The switching pressure has a tolerance of ± 15% from the set nominal value, adjusted in rising pressure and with a vertical diaphragm.

Disconnect the system from the electrical power supply

WARNING! Incorrect installation, adjustment, modification, operation or maintenance may cause injury or material damage. Read the instructions before use. This unit must be installed in accordance with the regulations in force.

Installation Instructions

Only if the diaphragm is installed vertically will the switching pressure (p_s) correspond to the scale value (SK).
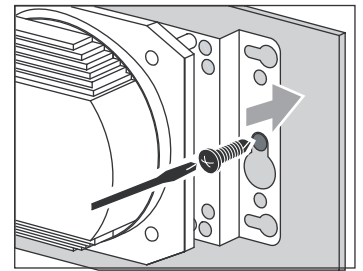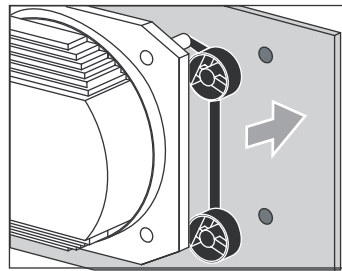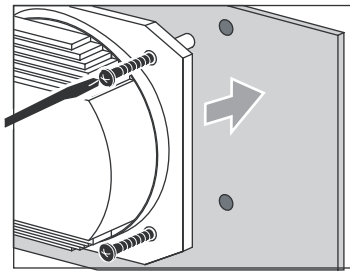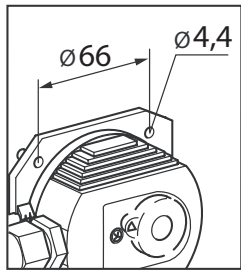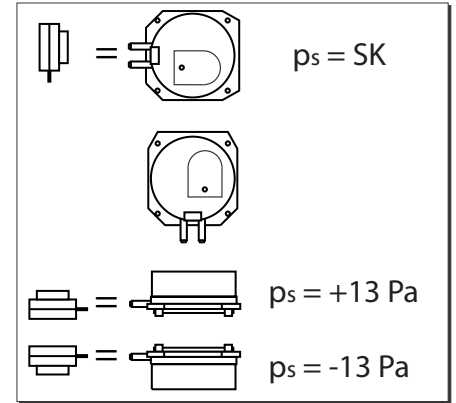
During the installation work ensure that no dirt and moisture can penetrate the open ventilation port.

Use the filter mat at the open connection if the electrical contacts in the ADP10 become soiled as the result of dirt particles in the surrounding air/in the medium.
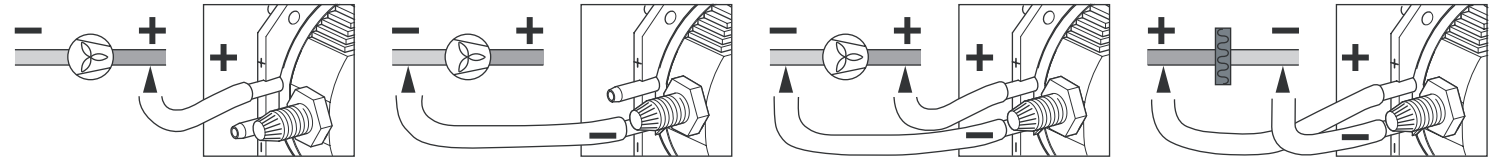
Avoid subjecting the ADP10 to strong or violent vibrations.

Install the ADP10 by bolting it, using a retaining clip or a bracket.

If the ADP10 is bolted, use a maximum of two screws to prevent stresses on the ADP10.

$p_s = SK$

$p_s = +13\ Pa$

$p_s = -13\ Pa$

$\varnothing 66$ $\varnothing 4,4$

Connect the 4.75mm Ø hose   Max. inlet pressure   pMax. = 5000 Pa.

Testing

We recommend a function check once a year (mains voltage, switching pressure, ambient temperature and enclosure – see type label).

M16 x 1,5: Ø 5-10mm

2 NO   1 NC   3 COM

L1(+)
3 COM
1 NC
2 NO

DUOMO