



Specialist Control Panels HEATING & VENTILATION

3 PHASE AUTO CHANGEOVER CONTROL PANEL

FEATURES

- Door interlocking isolator
- Selector switch for Fan 1, Fan 2 or Auto sharing
- Indication for Panel Live, and individual Run and Fail indicators for each fan
- Thermal overload and MCB protection for each fan
- Fire alarm contacts for shutdown in fire situation
- Volt free fan fail output
- Change over on fan failure
- Duty share every 5 hours

DESCRIPTION OF CONTROLS

Panel is designed to control two, three phase fans on a duty share basis, each fan will run for 5 hour, then change over to the standby fan.

The individual fans can be selected to run continuously by selecting the required fan on the selector switch on the panel fascia. If a fan goes into fault, the fault indicator lamp will illuminate and the panel will switch to the standby fan, and the volt free fault contacts will make.

The control panel is designed to be wired into the buildings fire alarm circuit, this will shut the fans down in the case of a fire.

INSTALLATION INSTRUCTIONS

The control panel is designed for wall mounting in a clean, dry environment where the ambient temperature does not exceed 30°C.

A space approximately 50mm should be left around the enclosure to allow for heat dissipation.

Fix the enclosure to the wall using proprietary fixings. Remove the gland plate then drill and gland for necessary cable entry and exits.

Replace the gland plate and wire panel in accordance with the wiring diagram.

All wiring must comply with current regulations and be in compliance with the Health and Safety at Work Act.

CONNECTIONS

- 3 Phase fans x 2
- Fire alarm circuit
- Airflow switch
- Volt free fault contacts

ENCLOSURE DETAILS

Dimensions: 300(w) x 400(h) x 150(d)mm

Finish: RAL 7032 textured

Cable entry: Top

Weatherproof: No

The information provided in the literature is believed to be accurate (subject to change without notice), however, use of such information shall be entirely at user's own risk.

ENQUIRIES

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3 PHASE AUTO CHANGEOVER CONTROL PANEL

AIRFLOW PRESSURE SWITCH INSTALLATION INSTRUCTIONS

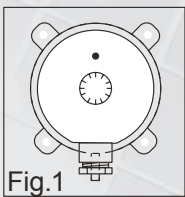


Fig.1

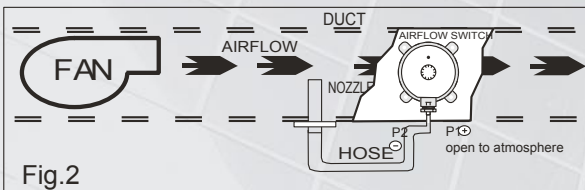


Fig.2

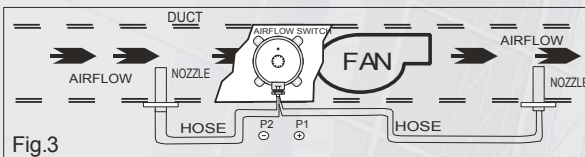
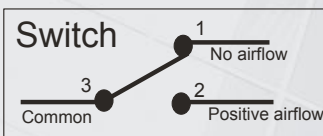


Fig.3

1. Mount the air flow switch on a flat surface ideally in a clean dry environment, but can be mounted externally. Mount the switch in vertical plane so that the nozzles are pointing down (as shown in fig.1).
2. Remove plastic cover from P2 - nozzle of air flow switch, both P1 + and P2 - are now open to atmosphere.
3. Mount nozzle in duct where positive air pressure is to be monitored, and well away from the fan to prevent turbulence (as shown in fig.2).
4. Connect the plastic tube between the nozzle and P2 - nozzle of the air flow switch. Please note this is because air flowing across the nozzle will suck air from the nozzle as a pitot tube.
5. Using a meter check the continuity between terminals 1 and 3 of the air flow switch with no airflow in the duct.
6. Turn the fan on and measure between terminals 1 and 3 of the air flow switch, adjust the switch until continuity is broken. if no switching action is obtained, try repositioning the nozzle to a position where a higher pressure is in the duct, and check the tube is not kinked. Avoid areas where turbulence may occur, ensure the nozzle is at a right angle to the airflow.
7. With the fan still on, check continuity between terminals 2 and 3 of air flow switch.
8. Turn off the fan and measure between terminals 2 and 3, there should be no continuity.
9. If unable to obtain a proper switch operation it may be necessary to fit a nozzle to the negative side of the duct as well, in which case P1 + connects to the fan outlet and P2 - to the fan inlet (as in fig.3).
10. To wire up switch for continuity when airflow is proven, use terminals 2 and 3.
11. Replace cover on air flow switch and use appropriate safety labels if mains voltage is switched.

N.B. MAXIMUM VOLTAGE 250 VAC MAXIMUM CURRENT 1.5 A RESISTIVE

WARNING: SWITCH OFF POWER BEFORE REMOVING PLASTIC COVER.

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