

# Speed Controls

## 1.5A and 2.5A for single phase motors

# Installation Guide

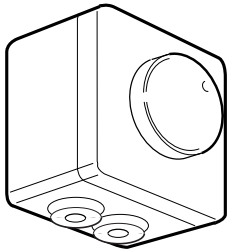


Figure 1. NSC 1.5A and 2.5A controls.

### Important

The installation must be carried out by qualified personnel in accordance with the appropriate authority and conforming to all statutory and governing regulations eg. IEE, CIBSE, COHSE etc.

### Isolation

Before commencing work ensure the electrical supply is disconnected.

### Electrical information

Voltage: 230V ac 1 ph 50Hz

Model	Current range	Fuse
NSCI-1.5	0.1 - 1.5 A	2 A
NSCI-2.5	0.2 - 2.5 A	3.15 A

### Installation

#### (Surface Mounting)

ISOLATE ELECTRICAL SUPPLY.

**Note: the unit must be mounted on a secure, vibration free vertical surface away from direct heat sources or water spray. The maximum permissible ambient temperature is 40°C.**

Pull off the front knob. Remove the cover. Separate the control casing and the control plate (2 screws).

Mark through the casing rear and mount the case onto the wall (cable access at bottom). Bring the cable through the grommets and connect to the control block as shown in figure 3 (connections facing down). Restore mains supply and switch control on.

Adjust the minimum speed and switch off control. Fit the cover and push on the adjusting knob in the OFF position. If required, drill a 5mm dia condensation drain hole in the bottom of the case.

#### (Panel Mounting)

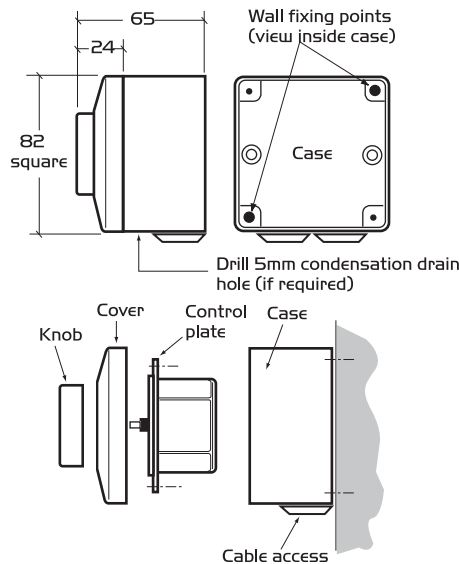
Isolate electrical supply.

Prepare a 52mm sq. aperture in the panel. Pull off the front knob. Remove the cover. Separate the control casing and the control plate (2 screws).

Mark through the two plate side fixings and mount the plate into the panel with the connections facing down. Connect as shown in diagram (figure 3).

### Surface Mounting (IP54)

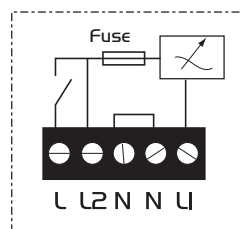
Figure 2.



Restore mains supply and switch control on. Adjust the minimum speed and switch off control. Fit the cover and push on the adjusting knob in the OFF position.

### Connection Diagram

Figure 3.



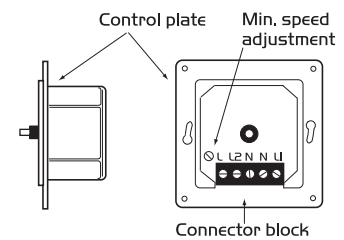
- L ..... Mains LIVE connection.
- L2 ..... Unregulated 230V output (or switch live to eg. damper)
- N ..... Mains NEUTRAL
- N ..... Motor NEUTRAL
- U ..... Regulated output to motor

**NOTE:** Connection L2 is provided as an extra connection to for example a damper or as an input to the control without bypassing the front controlling knob.

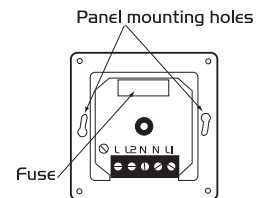
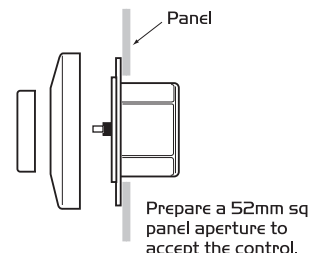
### Adjusting the control

The minimum speed adjuster screw (Figure 4). should be set so that the motor does not stop due to variations in mains voltage, and that it restarts following a power failure.

Figure 4.



### Panel Mounting Figure 5.



### Control application

This control is only for use with single phase fans that are suitable for speed control. The fan motor used should be internally protected from overheating.

### In case of faulty operation

Check that the correct voltage is applied and that all connections are correct. Check the fan to be regulated is functional. Check the fuse at the fusebox and in the control.

### Changing the fuse

The fuse is located on the internal control plate (see figure 5). Remove knob and cover, lift out the fuse holder with a screwdriver. Use only the correct value fuse, fast ceramic with a high breaking capacity. Use of incorrect fuse will void warranty.

### Maintenance

The control requires no maintenance other than cleaning. Disconnect supply and clean with a damp cloth. Do not spray any cleaning fluids onto the control.