

# Auto Transfor mer Speed Controls I Phase Installation Guide





### Important

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

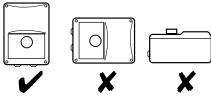
Befor e commencing work ensur e the electr ical supply is disconnect ed. NOTE: A fused spur isolat or (not included) must be provided in the supply fitted with a suitably rated fuse.

### Electr ical infor mation

Voltage:	230V lph 50Hz	
Model	Max. cur rent	Fuse
SPCONI.5	I.5A	2.5A
SPCON3.5	3.5A	5A
SPCON7.5	7.5A	IOA
SPCONIO	IOA	I4A

# Installation

Mounting the contr ol ISOLATE ELECTRICAL SUPPLY. Fig. I. Correct mounting.



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.

Turn the front knob to the OFF position. Remove the front cover (4 screws). Select a suitable flat surface. Note the unit must be mounted vertically with the cable entry at the bottom (see figure I). Mark through the casing rear fixing holes (cable access at bottom).

Drill and plug the mounting surface as necessary. Mount the case using suitable fixing screws (not supplied). Bring the motor and mains cables (these must be of a correct diameter size for the purpose) through the case glands or grommets and connect to the controls

terminal block as shown. Restore mains supply and switch control on.

# Contr ol application

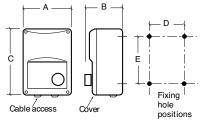
This control is only for use with single phase fans that are suitable for speed control.

The fan motor used should be internally protected from overheating.

In case of faulty oper ation
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.
Check the fuse in the control.

### Dimensions (mm)

Fig. 2



Unit Code	A	В	C	D	E
SPCONI.5	II5	85	180	98	182
SPCON3.5	200	140	280	139	233
SPCON7.5	200	140	280	139	233
SPCONIO	300	300	170	250	250

Unit Code	Weight k	g
SPCONI.5	1.7	
SPCON3.5	3.6	
SPCON7.5	6.0	
SPCONIO	9.5	

# Connection Diagr am

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⊥..... €ARTH ⊥..... €ARTH

....... Mains UVE supply connection.

N ...... Mains NEUTRAL supply connection

L2 ..... Unregulated 230V output (or switch live to eq. damper)

N ...... NEUTRAL

N ...... Motor NEUTRAL

U ...... Regulated output to Motor

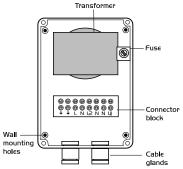
# Telephone 02920 858 400

## Changing the fuse

The fuse is located near the internal transformer (see figure 4). Remove 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.

Note that the fuse is designed for short circuit protection only.

Fig. 4 Inside controller (general layout)



### Ma intenance

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.

### Warranty

The 3 year warranty starts from the date of delivery and includes parts and labour for the first year.. The remaining 2 years covers replacement parts only. This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled, or not installed. commissioned and maintained in accordance with the details contained in this manual and general good practice. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

## After Sales Enquiries

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.