

SPEED CONTROL SYSTEM operated by a B.M.S. SUPPLEMENTARY DATA

To be used in conjunction with Technical Data sheet 670578

TECHNICAL DATA NUAIRE

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CI/SfB Ref

(57.7) Xh

Leaflet 670677

230V 1ph 50Hz
400V 3ph 50Hz

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Microsave Speed Control working in conjunction with a Building Management System where a locally mounted Control Panel (ICP) is NOT required.

General

This MicroSave speed control system which is controlled by a Building Management System is suitable for use with most NuAire fans including DuctMaster Axials, Terminator roof extracts, Mixed Flow Airmovers, Single Cabinet fans, Filtered Input units and the System 2000 De-stratification system.

Full details can be found in the MicroSave Speed Controls Applications Guide, NuAire Leaflet No. 670581

The 5 or 3 position stepped MicroSave Speed Control is controlled directly from the BMS for ON / OFF and speed selection via an analogue voltage signal taken directly to the MicroSave Control Module. See diagram below.

For matching this control with specific fans, see the 'MicroSave Speed Control Selection Guide' for the fan model chosen.

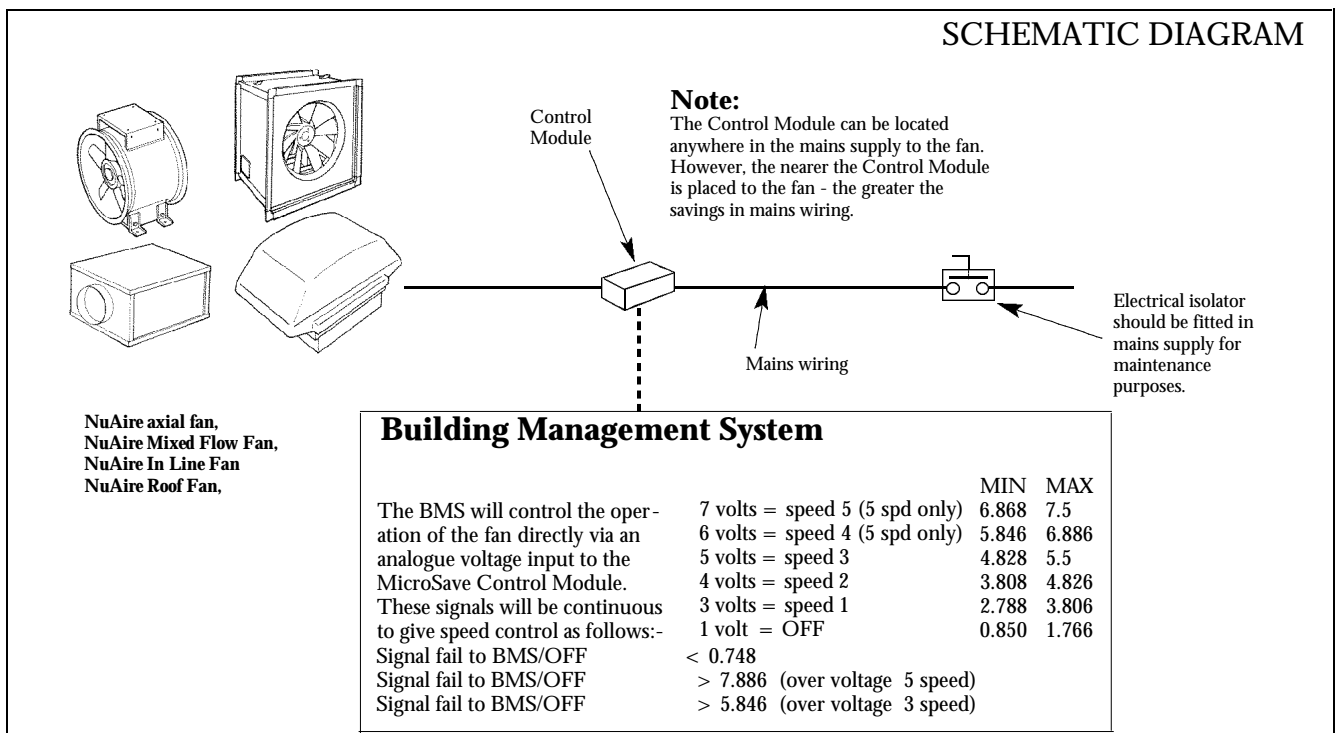
Coding

Two versions of the control are available, one is 5 speed the other is 3 speed. The last letter of the code indicates the version i.e. MSCBMS4-3 is a 3 speed model.

For coding insert the letters **BMS** in place of 'ON' in the standard speed control code e.g. **MSCON4-5** and **MSCON4-3** become **MSCBMS4-5** and **MSCBMS4-3**.

Standard codes can be found in the MicroSave Speed Control Selection sheets which are produced for each NuAire fan model range.

WITHOUT LOCAL (I.C.P). CONTROL



Typical Specification

The MicroSave speed control system shall comprise a control module mounted in the power supply to the fan. The exact location to be shown on the project drawings.

The module to be a robust galvanised steel enclosure containing all the electronic and mechanical components.

The control module shall include a contactor and overload which shall be set to

the current rating of the fan motor.

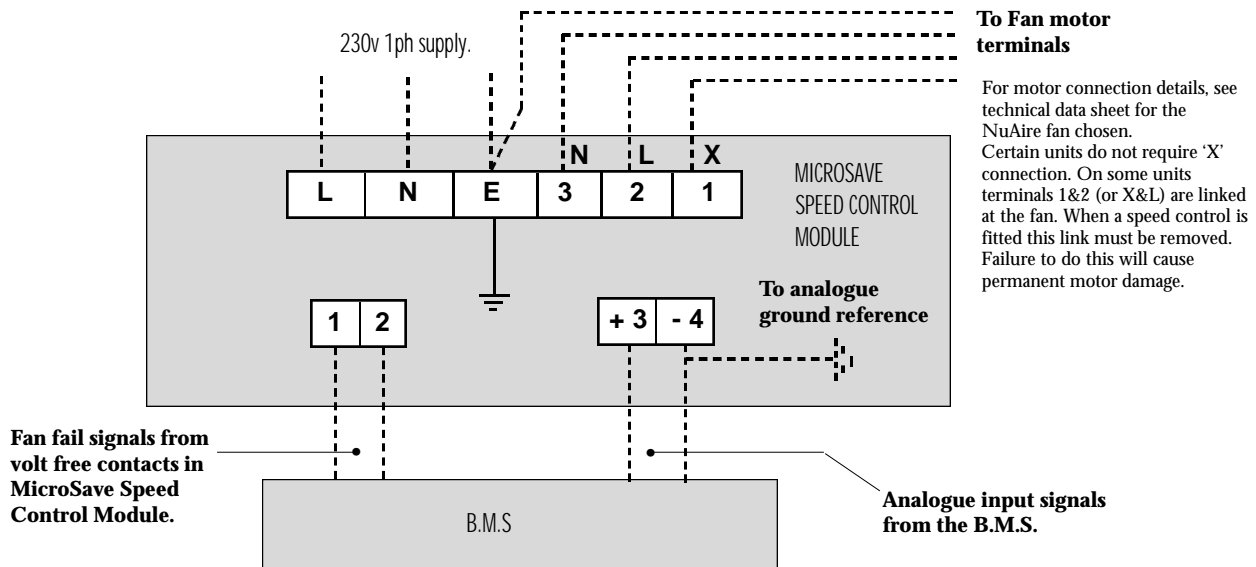
The method of speed control shall be by five steps or three steps derived from transformer tapings matched by NuAire to the fan chosen to eliminate harmonic motor noise.

Voltage signals from the B.M.S. shall control the operation of the fan from OFF through speeds 1-5 or 1-3. The values of

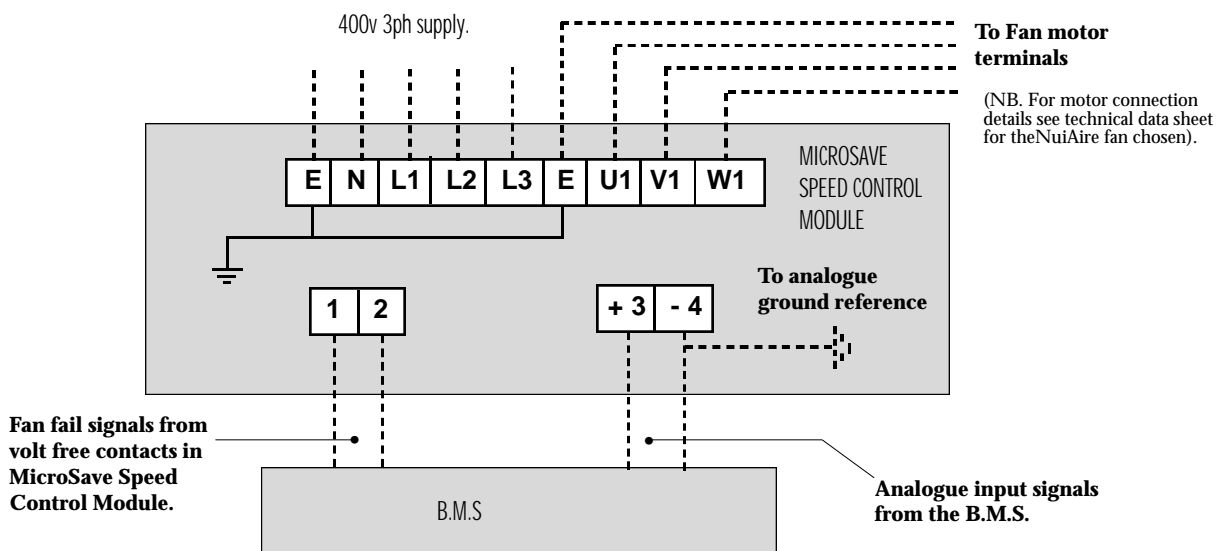
these signal voltages shall be shown in the relevant technical information supplied by NuAire. The B.M.S. shall be able to receive a fan fail signal from volt free contacts fitted in the MicroSave speed control module. This signal is to be provided from the overloads fitted.

For typical wiring diagrams see over page.

Wiring diagram 1 phase



Wiring diagram 3 phase



Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such alterations without prior notice.