

## PROVISIONAL DATA SHEET



### Product overview

The Axio AX-ECFAN3-24 converts three switched 24V inputs to a 0-10Vdc output signal. The proposed use is for controlling an EC Fan from a 24V switched thermostat.

The DC output voltage is internally adjustable on three preset potentiometers. The unit is 24Vac or dc powered. The AX-ECFAN3-24 features high quality rising clamp terminals for ease of connection.

### Features

- 3 off volt-free inputs for output selection
- 0-10Vdc output range for all three switched selections
- 24Vac/dc powered
- Flame retardant ABS moulded case

### Product specifications

Input select	3 off volt-free, optically isolated. 5mA nominal load (can be increased to 50mA load by use of jumpers if triacs switches are used)
Output voltage when selected	Adjustable between 0-10Vdc at 5mA maximum
Output voltage when off	<0.1Vdc at 5mA maximum
Supply voltage	24Vac/dc $\pm$ 15%
Terminals	Rising clamp for 0.5-2.5mm <sup>2</sup> cable
Ambient temperature range	0-50°C
Dimensions	92mm diameter x 52mm height
Fixing holes	2 off 4mm holes on 92mm centres
Housing	IP65 flame retardant ABS
Country of origin	United Kingdom

### Order codes

AX-ECFAN3-24      EC Fan three speed switch control, 24V

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# AX-ECFAN3-24

EC Fan three speed switch control

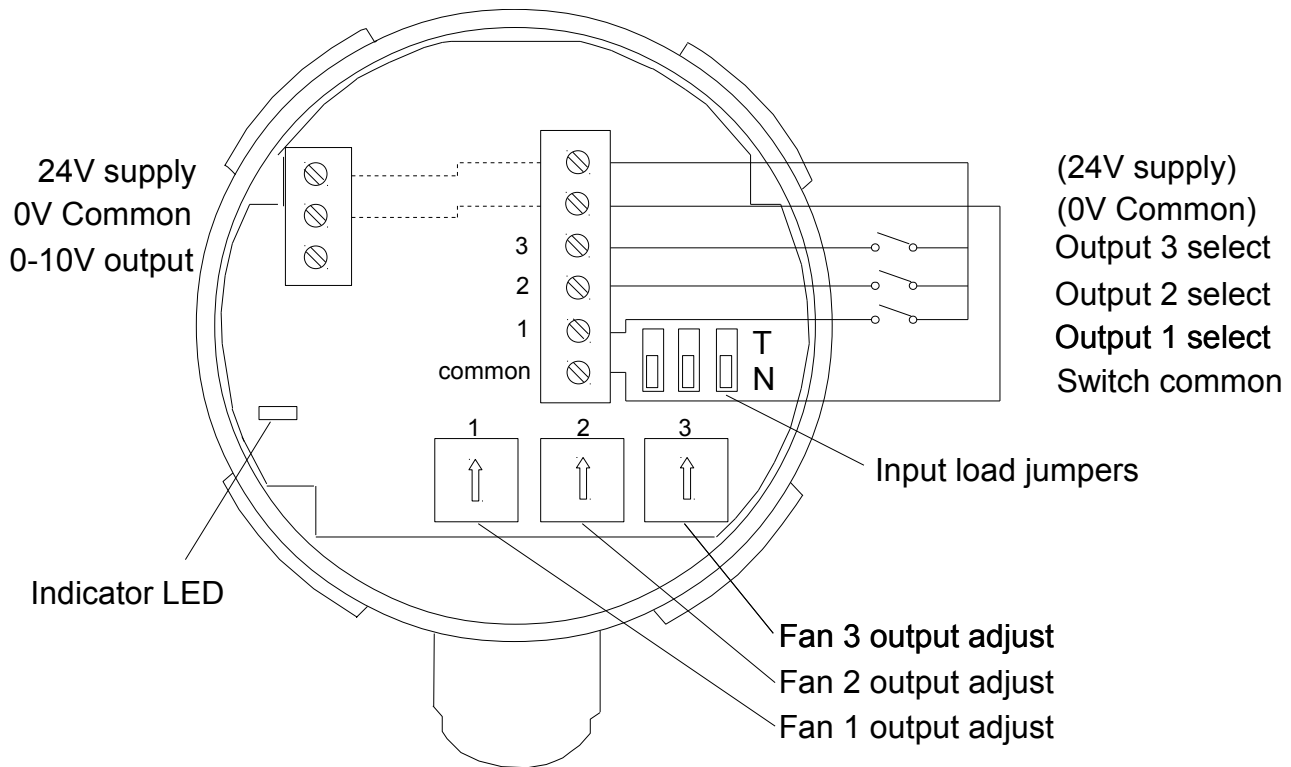


## Installation

The AX-ECFAN3-24 should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

## Description and Connections

Connections for a typical installation are shown below:



With none of the inputs selected, the output will be 0V.

When 'Output 1' has 24V applied relative to the switch common, the 0-10V output is as set by the Fan 1 potentiometer.

When 'Output 2' has 24V applied relative to the switch common, the 0-10V output is as set by the Fan 2 potentiometer.

When 'Output 3' has 24V applied relative to the switch common, the 0-10V output is as set by the Fan 3 potentiometer.

If at any time more than one input is selected, then the 0-10V output defaults to the higher of the inputs.

The on-board indicator LED will flash in short bursts to indicate which input is selected.

If triacs are used as the selection switches, then the current drawn may not be sufficient for the triacs to switch correctly. In this case, move all three of the 'input load jumpers' from position N to position T.