



## Cool levels of control

### Ceiling Sweep Fan Control Relay

- Three module wide enclosure
- High temperature rating
- In-built capacitor bay
- Optional IP5x rated (dust-proof) in-ceiling enclosure
- Local status indicators
- Local manual override button
- Powered from C-Bus
- Speed cycling with labels sent to C-Bus DLT switches
- Double-pole switching
- Optional direct on-line (DOL) start



## Commercial and Residential Applications

The C-Bus ceiling sweep fan control relay unit has been designed to use the capacitor supplied with the ceiling sweep fan and installed into a purpose-built bay, for direct replacement of the fan control switch supplied by the manufacturer.

Built into a three module wide format, it is ideal for electrical switchboards that are 15 modules wide and already have a 12 module wide C-Bus relay or dimmer installed.

With local manual speed control provided on the front of the controller, the fan can be tested as soon as C-Bus power is applied, even before the fan control unit has been programmed. Local speed indication is provided on the front of the unit along with standard C-Bus and Unit indicators. The fan speed controller has been designed to operate at temperatures up to 65°C, making it suitable for installation in ceiling spaces.

The optional enclosure offers a dust-proof environment with segregation barriers between the mains power and C-Bus connection areas. The enclosure offers tie points for securing incoming cables as well as a terminal strip and connector cable, to make C-Bus cable termination even easier.

The C-Bus ceiling sweep fan control unit uses relays (powered from C-Bus) that switch capacitors in and out of circuit. This makes it suitable for a variety of voltages. With support for double-pole switching, the unit is suitable for installations that require switching of both the active and neutral conductors.

Programming the fan controller is performed using C-Bus Toolkit commissioning software.

Whilst a fan control unit is required for each installed fan, multiple controllers can be programmed to operate from a single switch. This makes the units ideal for open-plan areas such as restaurants.

The fan controller includes a programmable kick-start feature that ensures the fan runs direct on-line for a preset time before dropping back to the desired speed. There is also an option that creates a delay when changing speeds, to ensure that the speeds don't accidentally overlap. Each speed can have a label programmed against it, which will be broadcast to devices such as Dynamic Labelling Technology (DLT) switches and touch screens when that speed is selected. The labels can be customised by the installer when programming.





## Installer Benefits

Designed and built with the installer in mind, the C-Bus ceiling sweep fan control relay provides an easy-to-install module with features required to make direct fan motor control safe and easy. Such features include:

- software interlocking between speeds (with adjustable changeover times)
- single button (stepping) control through speeds
- direct on-line (DOL) hard start option
- din rail mounting (three module wide) or optional enclosure for field installation of unit
- local manual override buttons to assist with commissioning
- on-board bay to accommodate capacitor
- double-pole switching
- high temperature rating
- optional dust-proof enclosure for in-ceiling installation
- optional enclosure enforces electrical isolation between mains and C-Bus wiring.

## User Benefits

Whilst these features were designed for easy use, there are also several benefits for the end-user, including:

- single button control of a single fan
- fan speed displayed on DLT-style switches
- control can be included in scenes and schedules
- master/slave configuration, so multiple fans can be controlled from a single switch using multiple controllers.



## Fan Control Relay Specifications



Parameter	Description
Description	C-Bus Ceiling Sweep Fan Control Relay
Catalogue Number	L5501RFCP
C-Bus Supply Voltage	15 to 36V d.c.
Current Requirement	18mA powered from C-Bus. Does not provide power to the C-Bus network
Network Clock	Software selectable
Network Burden	Software selectable (when unit address is 001)
a.c. Impedance	100kΩ @ 1kHz
Electrical Isolation	3.75KV from C-Bus to mains
Load Rating Per Relay Channel	1.5A @ 100 - 250V a.c. Suitable for inductive loads
Contact Type	Voltage free, interlocked double-pole switching
Connectors	C-Bus: 2 x RJ45 UTP Cat.5e Capacitor block: 3 x push type, 1.5mm <sup>2</sup> cable size per connection Fan load: screw type, accommodates 1.5mm <sup>2</sup> cable per terminal Fan supply: screw type, accommodates 1.5mm <sup>2</sup> cable per terminal
Indicators	C-Bus unit and fan speed indicators
Local Control	Local override push button, non illuminated
Warm-up time	10 seconds
Mounting	DIN rail (three modules wide)
IP rating	IP20
Weight	145g
Operating temperature	0 to 65°C (32 to 150°F)
Operating humidity	0 to 95% RH, non-condensing



## Fan Control Relay Enclosure Specifications

Parameter	Description
Description	Fan Control Relay Enclosure
Catalogue Number	5501FRE
C-Bus Connection	Screw terminal with 1 x RJ45 to bootlace crimp 100mm lead
Mounting	Surface mount, indoor only
Cable Entry Knockouts	6 x 20mm diameter
IP Rating	IP5x (dust-proof)
Weight	220g
Dimensions	L = 210mm x W = 75.5mm x D = 66mm

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