

**CLIPSAL**<sup>®</sup>

by **Schneider** Electric



# Three Speed Capacitive Fan Controller

**30CSFM**  
Series



Installation Instructions

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## 1.0 Product Range

<b>30CSFM</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (30 Series Mechanism)
<b>30CSF5M</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Suits ACES52W5L)
<b>31VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Standard Range)
<b>2031VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (2000 Series)
<b>C2031VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Classic Series)
<b>SC2031VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Slimline Series)
<b>SL2031VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Eclipse Series)
<b>4060CSFM</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Saturn Series)
<b>P2031VF3CSF</b>	Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Prestige Series)

\* Please note that these products are also available in other configurations and in a wide range of colours. For further information, please contact your nearest Clipsal Sales Representative.

## 2.0 Description

The Clipsal 30CSFM Series Three Speed Fan Controller is designed to provide discreet, linear speed control over small motor loads, including Clipsal's extensive range of Airflow Ceiling Sweep Fans.

The Fan Controller unit incorporates a three position rotary switch mechanism and a multi-tap capacitor block. This method of control overcomes the motor 'growl' (or buzzing noises), often emitted from fans controlled by other electronic (phase control) speed setters, and ensures quiet operation of the fan motor.

The 30CSFM Series Three Speed Fan Controller is suitable for use in any new installation, but is also retro-fittable, and may be used to replace a standard controller switch in any existing installation. This includes many older style 'choke' controllers.



30CSFM  
FAN MECHANISM



2031VF3CSF  
2000 SERIES PLATE

## 3.0 Features

- Three speed rotary switch controller
- Multi-tap capacitive attenuation block
- Three linear speed settings (Lo, Med, Hi)
- 75VA rating
- Wall or architrave mounting options, horizontal or vertical
- Wide range of plate styles and colour variants available
- Suitable for 1-way or 2-way operation
- Suitable for use with ceiling sweep fans (split-phase induction motors)
- Suitable for use with exhaust fans (shaded-pole induction motors)
- Complies with Australian and International EMC Standards.

SWITCH POSITION	1	2	3
SPEED SETTING	Lo	Med	Hi
CAPACITANCE VALUE	1.8uF	2.7uF	0
APPROXIMATE SPEED*	100 rpm	200 rpm	275 rpm

\*Actual speed may vary slightly with respect to the specific model fan selected for the installation.

## 4.0 Load Compatibility

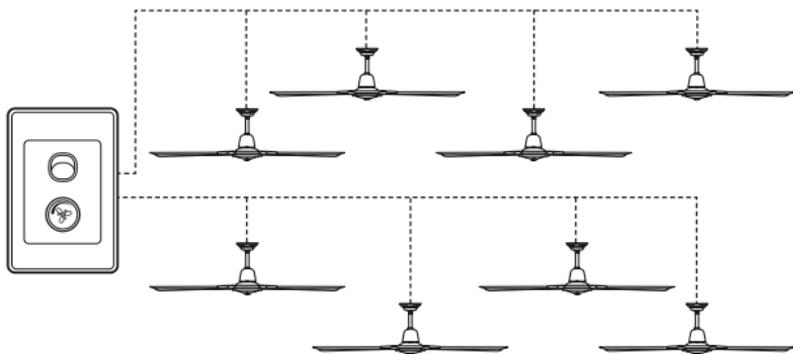
### Controlling a Single Fan

The 30CSFM Series Three Speed Fan Controller may be used to operate a single Airflow Ceiling Sweep Fan.



### Multiple Fans on a Single Controller

Where multiple fans are required to be operated from a single speed controller, a Clipsal C-Thru® Electronic Fan Speed Controller (sold separately) must be used.



You can control up to eight Airflow Ceiling Sweep Fans using a Clipsal C-Thru® Electronic Fan Speed Controller (catalogue number 32E500FM).

#### Note:

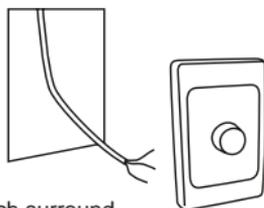
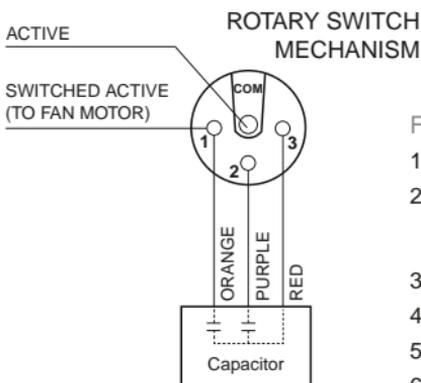
The 30CSFM Three Speed Fan Controller supplied with each fan is not suitable for controlling multiple fans. Failure to comply with this instruction will void any warranty associated with the product.

## 5.0 Important Warning

It is illegal for persons other than an appropriately licenced electrical contractor, or other persons authorised by legislation, to work on the fixed wiring of any electrical installation. Penalties for conviction are severe!

## 6.0 Installation Instructions

### Connecting the Speed Controller



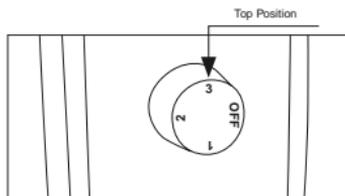
#### Fan Only

1. Remove the switch surround.
2. Terminate cables as shown; connect:
  - Active feed to common terminal
  - Switched Active/Fan to terminal 1.
3. Fix capacitor block to grid plate.
4. Fix controller to wallbox or bracket.
5. Replace switch surround.
6. Apply power to circuit.
7. Test fan operation.

### Mounting Orientation

The arrangement of the controller as shipped suits vertical installation. To mount the controller in a horizontal position:

1. lever the knob from the shaft
2. prise mech out of aperture and rotate 90°
3. clip mechanism into new position and replace knob.

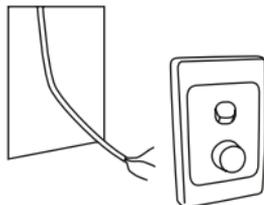
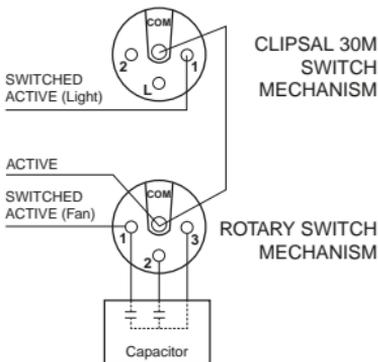


The speed setting should always be located at the TOP POSITION of the knob as illustrated.

### Unit Operation

Turn the knob to speed three (Hi). This will start the fan spinning. Once the fan is spinning then you can select a lower speed if desired.

### Connecting the Speed Controller with a Light Switch



#### Fan with a Light

Requires additional components (supplied separately):

- 30M switch mechanism.
  - Two gang grid plate and surround (eg 2000 Series – 2032VH).
- Connect as shown in the diagram.

## 7.0 Compatible Airflow Ceiling Sweep Fans

All Airflow Ceiling Sweep Fans are compatible with the 30CSFM Series Three Speed Fan Controller, including:

<b>ACES36</b>	900mm (36") Reversible Ceiling Sweep Fan – Hang Sure
<b>ACES48</b>	1200mm (48") Reversible Ceiling Sweep Fan – Hang Sure
<b>ACES52</b>	1300mm (52") Reversible Ceiling Sweep Fan – Hang Sure
<b>ACES56</b>	1400mm (56") Reversible Ceiling Sweep Fan – Hang Sure
<b>ACES36J</b>	900mm (36") Reversible Ceiling Sweep Fan – J Hook
<b>ACES48J</b>	1200mm (48") Reversible Ceiling Sweep Fan – J Hook
<b>ACES56J</b>	1400mm (56") Reversible Ceiling Sweep Fan – J Hook
<b>AFLR48</b>	1200mm (48") Reversible Ceiling Sweep Fan – Rattan Blades – Hang Sure

## 8.0 Fan Installation Checklist

The following guidelines should be followed to ensure quiet operation:

1. Ensure all bolts and screws are properly tightened when assembling fan.
2. Check fit of support hook to rubber support insulator. If loose, fit rubber sheathing provided to ensure neat fit.
3. Place rubber washers supplied between support insulator and support insulator brackets for tight fit.
4. Prevent loose split pins from rattling by covering with small piece of insulation tape or other suitable method.
5. Ensure top and bottom cowls are securely fixed and slightly clear of ceiling and fan motor.

*\*A few minutes spent checking the above will, in most cases, ensure silent operation of the fan.*

## 9.0 Also Available from Clipsal

### C-Thru® Electronic Fan Controllers

- Rapid fan start feature.
- Variable speed adjustment.
- Control up to eight Airflow Fans.
- Multiple plate styles available.



## 10.0 Electrical Specifications

Parameter	Value	
Nominal Operating Voltage	220 - 240V a.c.	
Nominal Operating Frequency	50Hz	
Maximum Load	75VA (Limit ONLY ONE Ceiling Sweep Fan per Controller)	
Speed Control Technique	Capacitive attenuation	
Compatible Loads		Ceiling fans (split-phase induction motors)  Exhaust fans (shaded pole induction motors)
Operating Temperature Range	0 to 40°C	
Operating Humidity Range	10 to 90% R.H.	
Mounting Centres	84mm (Australian Pattern Plate)	
Shipping Weight	25g (fan control mechanism only)	
EMC Emission Compliance	AS/NZS CISPR 15:2002	
Specifications Typical @ 25°C ± 5°C		
No User Serviceable Parts Inside		

## 11.0 Warranty Statement

1. The benefits conferred herein are in addition to, and in no way shall be deemed to derogate; either expressly or by implication, any or all other rights and remedies in respect to the Clipsal Product, which the consumer has under the Commonwealth Trade Practices Act or any other similar State or Territory Laws.
2. The warrantor is Clipsal Australia Pty Ltd. With registered offices in all Australian States.
3. This Clipsal Product is guaranteed against faulty workmanship and materials for a period of one (1) year from the date of installation.
4. Clipsal Australia Pty Ltd reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.
5. This warranty is expressly subject to the Clipsal Product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.
6. All costs of a claim shall be met by Clipsal Australia Pty Ltd, however should the product that is the subject of the claim be found to be in good working order all such costs shall be met by the claimant.
7. When making a claim the consumer shall forward the Clipsal Product to the nearest office of Clipsal Australia Pty Ltd with adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.

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### Clipsal Australia Pty Ltd

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Contact us: [clipsal.com/feedback](http://clipsal.com/feedback)

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