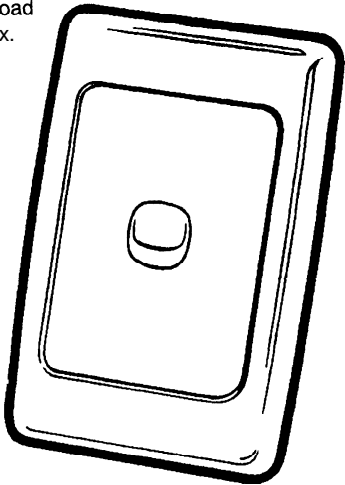


Two Wire Electronic Time Delay Switch for Exhaust Fans

Wiring Instructions

2031VETF & 31VETF Series

250V 10A Total Load
Fan Load 2 A Max.



The Clipsal 31VETF Series is an electronic time delay switch which provides extended exhaust fan operation to ensure proper ventilation in bathrooms and toilets.

This latest, revised model of our popular 31VETF represents our 3rd generation of evolving electronic technology. The 31VETF Series does not require a direct neutral connection and is consequently known as a two wire device.

It uses a single switch to operate both lighting and an exhaust fan. Both loads switch on simultaneously when the switch is operated, but when the lighting is turned off, the exhaust fan continues to run for several minutes.

TIME DELAY INTERVALS AVAILABLE

The 31VETF Series is adjustable to allow fans to continue to run from 3 minutes to 10 minutes (approximately) after the lighting is turned off.

The delay adjustment is accessible on the rear of the device.

OPERATION

Turning on the switch will cause both the lights and the fan to operate. The electronic timer starts when the switch is turned off. The lights are controlled directly by the switch, however, the fan will run for its preset timer period when the lights are turned off. Turning the lights on and off again, while the fan is still running, will cause the timer period to restart.

The fan will activate for a timer cycle whenever power is re-applied to the unit. eg. initial installation, power failure/return, fan replacement.

WIRING DETAILS

Wiring should be done as shown. An additional switch can be fitted to override the timer and turn the fan off. It must be placed in the 'Fan Load' connection as shown in this diagram. In some installations this switch may be required to comply with the wiring rules. Should it be necessary to mount the 31VETF remotely from the switching location, a Clipsal Cat. No. 30MD can be used. (see fig. 1). Wiring between this switch and the 31VETF should be carried out with regard to the following guide lines:

- Both line and fan must be wired in a common cable (eg. twin). This will avoid electrical interference effects on the 31VETF.
- Maximum allowable cable lengths between the 31VETF and the remote switch are:
- The maximum total load current (Fan plus Light) must not exceed 10A.

Cable Size	Max Length
1mm ²	20 metres
2.5 mm ²	50 metres

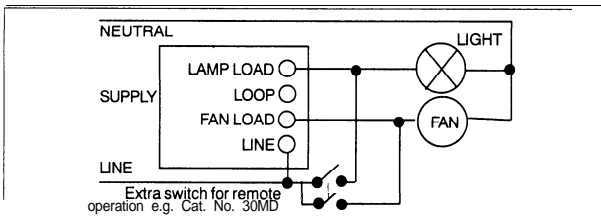
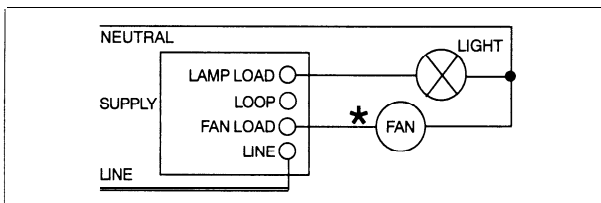
RATINGS

Operating Voltage 200-280 Volts
 Max. Total Load 10A
 Max. Light Load 10A
 Max. Fan Load 2A
 Min. Fan Load 40mA
 Offstate Leakage Current

(1) through Fan 8mA at 25°C Max.

Operating Temp. Range -10°C to +45°C

Notes: (1) Two wire devices obtain their power through the 'Load'. This results in current flow, through the 'Fan Load', in the OFF state. Due to advances on technology and design Clipsal Two Wire devices draw only 8ma @ 25°C.



***Note:** Some installations may require an additional isolating switch in the 'Fan Load' circuit to comply with the wiring rules.
 FIG. 1. 31VETF Series Wiring Diagrams.

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