

ABC Fan Controllers



- > Secondary Fan Controllers
- > Current Monitoring Relays



eureka
www.eurekaelectrical.com.au

Proudly Australian
Owned & Engineered

ABC Series Products

The FR and CS range of special application sensors are designed to solve specific installation issues found in today's modern buildings. These products are especially designed with the installation team in mind - with each product being made for ease of installation and commissioning. All FR and CS series products can be customised by you on site or at the design stage for your specific application. Please call your local distributor to discuss your site specific requirements.

Please note that all ABC products are to be installed by qualified electricians only.

ABC FR3

Current monitor & timer

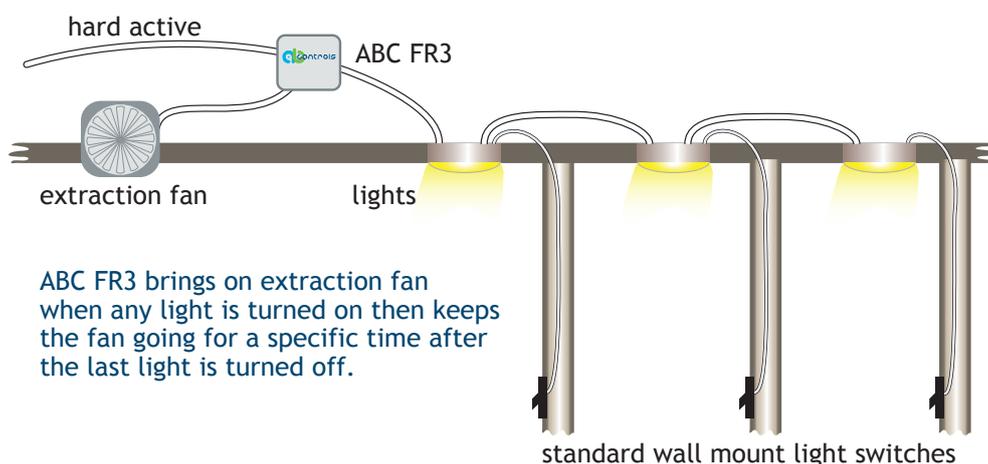
The ABC FR3, an Australian designed and made product, is a very versatile current sensor, delay off timer (10 minutes maximum adjustable) and 5 Amp (inductive) power relay in one small unit. It is designed to monitor the current (amps) used on a 240V AC circuit and operate the internal 5 Amp (ind) power relay when the monitored circuit draws current.

When current in the circuit is detected, the ABC FR3 unit will activate an on-board relay to provide power to the attached appliance. When the current is turned off a built-in, adjustable run-on timer will keep the output relay energized for up to 10 minutes. The output relay can be used to control up to 5 Amps (ind) at 240VAC

This versatile unit was originally designed to operate an extraction fan for commercial toilets but has found many other uses in modern apartment

blocks where it has been used to operate a rangehood make up air or booster fan and control the bath/toilet/laundry extraction fan. One unit can monitor several light and power circuits to control a multiple use fan. It has also been used to operate a drive open/drive closed damper for air flow.

The ABC FR3 can use both its supplied internal current sensor and an additional remote mounted sensor or override switch. For example the internal sensor can monitor several light circuits at the same time while a remote switch can act as a fan override. The ABC FR3 unit can be used to operate a toilet fan extracting air from a group of toilets. The fan will operate when any light switch is turned on and can be set to stop 10 min after the last light has turned off. The ABC FR3 will take power from the lighting circuit to operate the fan.



ABC FR3 brings on extraction fan when any light is turned on then keeps the fan going for a specific time after the last light is turned off.

ABC FR3 options

Other versions are available on request to suit your needs. Call us to discuss your requirements and we can recommend the best alternative for the situation or, in some instances, create a new one.

Some of the most popular alternative versions have been:

- ABC FR3A with plug and socket lead attached to allow for faster, easier installation. This model has been a favourite for plug in extraction systems such as a rangehood
- ABC FR3AV - as above but with an adjustable current sensor, useful where systems with electronic controls draw heavy standby current.
- ABC FR3N - delay-off timer. The ABC FR3N looks identical to the other FR series products but without the current sensor. This delay-off timer has found varied uses as a remote mounted timer with a no volt trigger input.

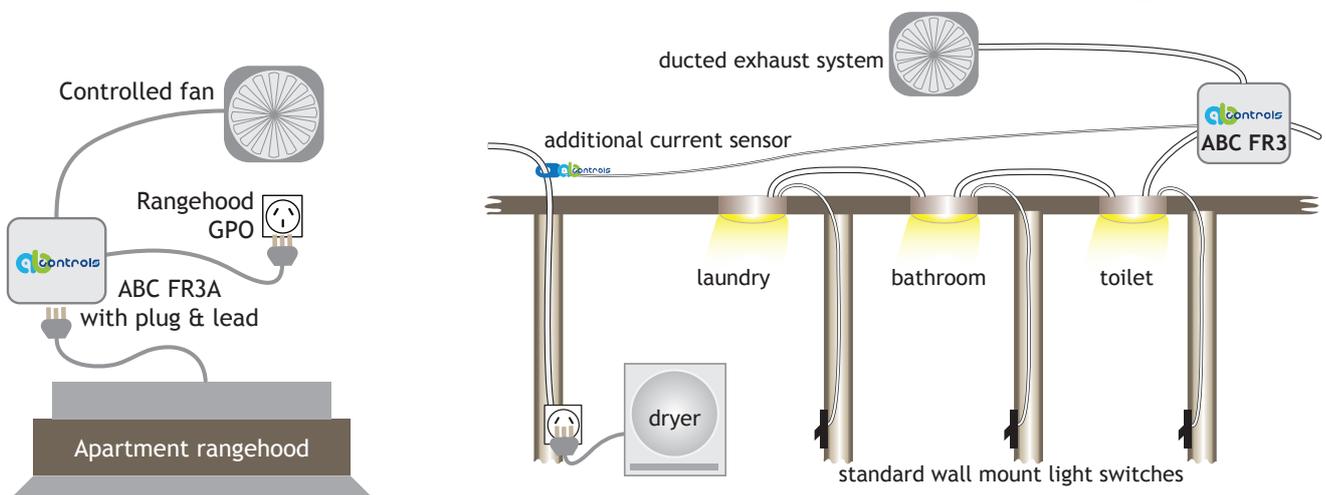
ABC FR3 Specifications

- Operation voltage 220 to 240 VACMax
- Total Load current 10 Amps Max
- Relay switching current 10 Amps (res) 5 Amp (ind)-AC3
- Timer range ABC FR3 0 to 10 min adjustable

Like its cousins, it is designed to operate a single phase fan and is often used to control fresh air fans connected to a split or package air conditioning unit but has also been used to turn off air conditioning systems whenever a door is left open.

The ABC FR3 series products can be installed in a variety of ways, one unit can monitor several circuits at once to control a fan and even have a remote over ride run switch attached.

- In the example pictured below, one ABC FR3 is used to monitor lights in the toilet, bath room and laundry and also monitor the power circuit of the clothes dryer by using a remote current sensor in a standard electrical Jbox.



ABC-CS1 Series

Current monitoring relay

This new range of compact current sensors have many varied uses. They will monitor a 240vac load and switch a second load when current is detected. Because it doesn't need the timing facility of the FR3 series, its small size makes it easier to install than ever before.

The ABC CS1 can be purchased as a standalone PCB, small enough to mount in a standard electrical Jbox or in a pre-wired enclosure as shown.

ABC CS1 options

Other versions are available to suit your needs, please call your distributor to discuss your requirements.

An alternative installation idea is to use the ABC CS1A or ABC CS1B to monitor a rangehood fan and start a makeup air booster fan. Many other applications are possible.



ABC CS1 Specifications

- Total CS1 loading 10 Amps Max
- Monitored load from 0.2 amps to 10 amps
- Controlled load (relay) 5 amps Max (AC3).
- Relay fuse 5 Amp slow blow
- Designed voltage 210 to 250 Vac

SEN C1200HV

- current sensor only with output switching contacts rated at 240VAC 0.1 amp

ABC CS1A

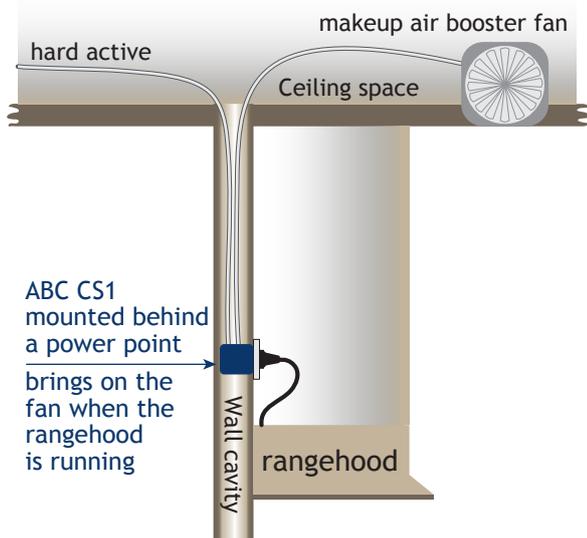
- circuit board only, can be mounted in a standard electrical junction box

ABC CS1A-R

- As above but designed for the sensor to be mounted remote to the PCB

ABC CS1B

- supplied in an enclosure with connection cable attached, as per photo



Please contact your local distributor for pricing and any technical details or requirements.



98 Commercial Drive, Thomastown VIC 3074
Ph (03) 9464 6555 Fax (03) 9464 5155
Email sales@nawcontrols.com.au
www.nawcontrols.com.au



2C Brunner Road, Chullora NSW 2190
Ph 1300 TOBINS, (02) 8713 5200 Fax (02) 9790 5211
Email sales@tobins.com.au
www.tobins.com.au



27A Colin Jamieson Drive, Welshpool WA 6106
Ph 08 9451 4782 Fax 08 9451 7057
Email sales@uniquip.net.au
www.uniquip.net.au



10/229 Robinson Road East, Geebung QLD 4034
Ph 07 3265 3968 Fax 07 3265 1098
www.sparkyshed.com.au



31 Sunderland Street, Moonah TAS 7009
Ph (03) 6273 4455 Fax (03) 6273 4734
www.gordonwood.net.au