

# EARTH FAULT ALARM KIT

FLASHING LED WITH BUZZER & ENCLOSURE



**WORKS WITH ALL SOLAR INVERTERS SUPPLIED BY SOL DISTRIBUTION.**

## Technical Specification:

- Voltage - 240V AC
- Current Usage - 25mA
- Noise Level - 85DB
- IP65 Rated Enclosure
- IP20 Rated LED/Buzzer
- Wall mountable

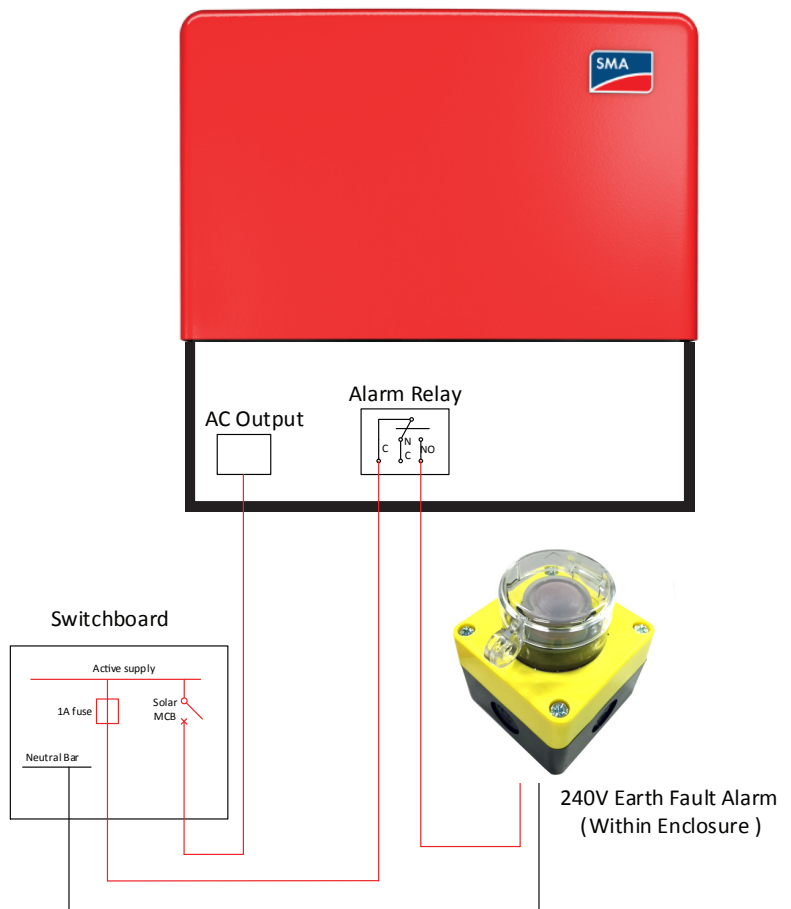
## NOTES:

1. Alarm relay in inverter must be configured to activate in the event of an earth fault, refer to individual inverter documentation for details.

2. Electrical contractor to confirm all cable sizes and circuit protection ratings.

3. Earth fault alarm circuit must be a separate circuit to the inverter AC output. This is a requirement of inverter installation manuals, and inverter warranty may be voided otherwise.

Suggested wiring diagram:



## RELEVANT EXCERPT FROM AS/NZS 5033:2014: 5.4.3 Earth Fault Alarm

"In systems where the PV array is operating at LV, an earth fault alarm system shall be installed which, on an earth fault, causes an action to be initiated to correct the earth fault. The alarm system is to continue repeating its operation at least at hourly intervals until the earth fault is corrected. The alarm system may be an audible signal placed in an area where operational staff or system owners will be aware of the signal or another form of fault communication, for example fax, email, SMS or similar, shall be applied to inform to the system operator."

**NOTE:** Many inverters have earth fault detection and indication in the form of indicator lights. This indication is generally not in an area that will be noticed. IEC 62109-2 requires that inverters have a local indication and also a means of signalling an earth fault externally. The external alarm function should be used to cause an action to be initiated to correct the earth fault (i.e. by placing a light or audible signal where it will be noticed).

**1300 660 483**  
**sol-distribution.com.au**