

## Earth Continuity Relay

Leaders in Innovative Protection Systems, Bramco's ic3 is **compliant** to latest statutory and industry standards. The ic3 provides next generation Earth Continuity monitoring, of supply cables.

### Application:

The Bramco ic3 Earth Continuity Relay is designed to actively monitor the Resistance of the Pilot Earth circuit in a supply cable by diode termination.

The ic3 utilises microprocessor technology to provide a greater level of stability over longer pilot cables by using digital filtering techniques. The microprocessor also performs continual self diagnostics to prevent false tripping or failure to operate.

The ic3 has a user selectable trip resistance adjustable between 5 and 45 ohms as well as user selectable trip time from 100-500ms for electrically noisy cable reels and VSD applications.

### Features:

- Operational trip resistance selectable from 5-45 ohms
- Excellent tolerance to pilot capacitance and inductance allowing for longer cable runs
- Local or Remote start operation. Remote Start/Stop using a 100R resistor
- Failsafe Operation
- Intrinsically Safe for operation in explosive environments to **Exib**.

### Ordering Information:

- A01328      **Exib Compliant** Earth Continuity Relay - 110VAC
- A01329      **Exib Compliant** Earth Continuity Relay - 24-48VAC/DC

### Specifications:

#### Supply Voltage Options:

- 24V AC/DC
- 110VAC
- 3.5VA
- -25% to +20%

#### Consumption:

#### Voltage Tolerance:

#### Pilot to Earth Resistance

#### Local Mode:

- Trip above pre-set value
- Trip above 100ohms start resistor + pre-set value
- 5A 250VAC (General)
- 5A 30VDC (Resistive) (100VA Max)

#### Remote Mode:

#### Relay Contacts:

#### Shunt resistance before trip:

#### Trip Delay:

#### Temperature Range:

#### Humidity:

#### Enclosure Dimensions:

#### Material:

- 1Kohm
- Selectable 100-500ms
- 0°C to +60°C
- Non Condensing
- 55W x 75H x 110D
- High Impact resistant polycarbonate
- IP20 Rating
- Din Rail & 2 screw mounting
- Cage Screw Terminals
- 150g

#### Mounting:

#### Terminals:

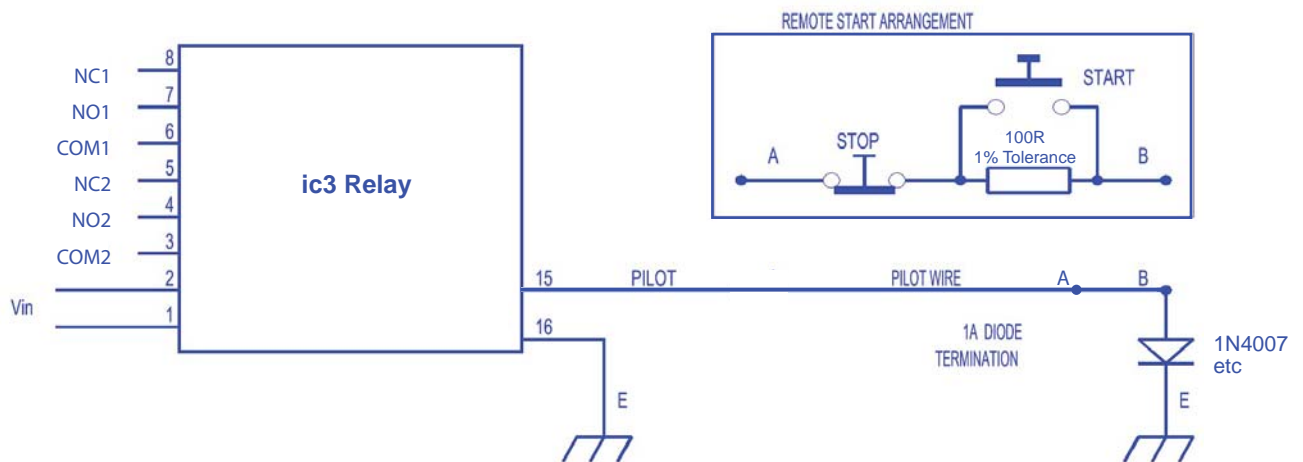
#### Weight:



**C** = Complies to latest Standards

## Earth Continuity Relay

### Connection Diagram:



**Note:** 100 ohm start resistor must be at least 1% tolerance or better.

### Compliance:

ASNZS 60079-11

AS/NZS 2081 - 2011

The ic3 comes with a minimum 2 year warranty.

### Bramco Contacts:

19 Aruma Place  
Cardiff Nsw 2285  
Australia  
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### Outline and Mounting Hole Dimensions:

