



Earth Continuity Relay Model i-C

Application

The Bramco Electronics Earth Continuity Relay, i-C, has been designed to monitor the continuity of the Earth Circuit in a supply cable by grounding the pilot core via a diode, polarised positive to earth.

The i-C Relay Offers:

- Fail-safe operation
- Detection of pilot wire shorted to earth
- LED indication of power on
- LED warning when an earth continuity fault occurs
- Higher (non-approved) maximum resistance range available to special order
- Easy modification to suit Pilot Control operation available
- Special 100mSec reduced trip time model available

Specifications

Supply

- 110vAC 50/60Hz standard
- 240vAC 50/60Hz optional
- 24vAC or DC 50/60Hz optional
- 48vDC 50/60Hz optional
- 40/50Hz optional

Voltage Tolerances

- -30% to +20%

Operational

- from 0 to 45 Ohms

Fail Safe

Relay contacts energised whilst diode is healthy and earth resistance levels less than 45 Ohms

Pilot Wire

Diode termination to earth at remote end of cable

Relay Contacts

2 pole changeover 5A-240vAC
Intrinsic safety rating - 100vA

Base Mounting

- DIN rail or screw down

Materials

- High impact poly carbonate

Bramco Contacts

Head Office

Bramco Electronics
ABN 49 327 604 798

Unit 2&3/2 Callistemon Close
Warabrook NSW 2304
PO Box 241 Hunter Region MC
NSW 2310 AUSTRALIA

Telephone +61 2 4014 4444
Facsimile +61 2 4967 4100
Email sales@bramco.com.au

Distributor Locations Australia:

- | | |
|-----------------------|----------------|
| ■ Newcastle NSW | ■ Brisbane QLD |
| ■ Wollongong NSW | ■ Perth WA |
| ■ Cairns QLD | ■ Emerald QLD |
| ■ Cumberland Park, SA | |

South Africa:

- Heidelberg - Emis Sales
- Delmas - Bramco South Africa

USA:

- Bland, VA

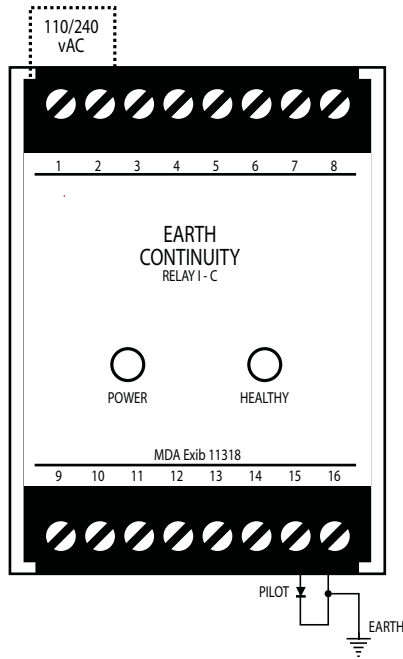
BRAMCO
ELECTRONICS

ABN 49 327 604 798
PO Box 241
Hunter Region MC
www.bramco.com.au

© Copyright Bramco Electronics
Specifications subject to change without notice June 2011



Typical Installation



Ordering Information

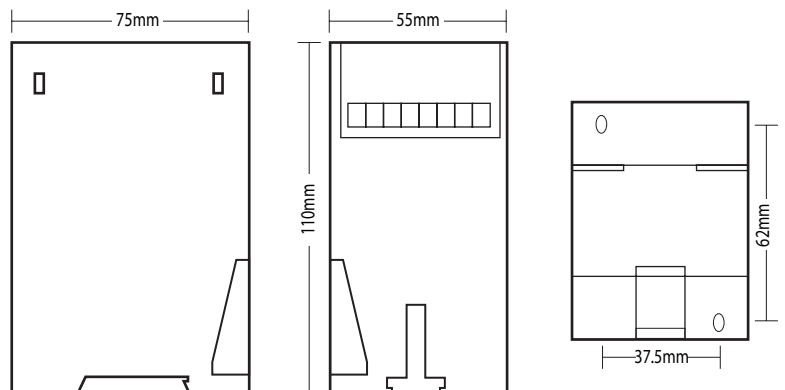
A00020	i-C Relay 110vAC
A00936	i-C Relay 240vAC
A00422	i-C Relay 48vAC/DC
A00462	i-C Relay 24-48vAC/DC
A00435	i-C Relay NonFailsafe 110/240vAC
A00474	i-C Reduced trip time 100mSec 110v/240vAC
A00478	i-C Reduced trip time 100mSec 24vAC/DC
A00566	i-C Relay 11kV
A00568	i-C Relay 440v

Please contact Bramco or your local Distributor for your specific needs.

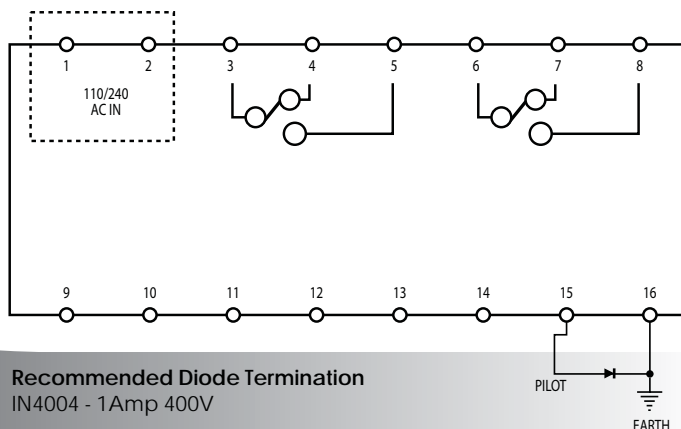
Approvals/Conformance's

N.S.W Mines MDA EXib 11318
 QLD Mines QMD 947347X
 AS 2081:2-1988 Compliant

Outline and Mounting Hole Dimensions



Connection Details



Recommended Diode Termination
 IN4004 - 1Amp 400V

BRAMCO
 ELECTRONICS

ABN 49 327 604 798
 PO Box 241
 Hunter Region MC
 www.bramco.com.au

© Copyright Bramco Electronics
 Specifications subject to change without notice June 2011