M-TRONIX BRAMCO
SAFETY INNOVATORS

Exclusive Distributors of All
Bramco Products
40 Years of Unwavering Innovation

iC3

EARTH CONTINUITY RELAY

EARTH CONTINUITY RELAY

Overview:

Leaders in Innovative Protection Systems, M-TRONIXs 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
• Designed for operation in explosive environments to Exib.

Ordering Information:

MT01328 - iC3 Relay - 110AC
MT01329 - iC3 Relay - 24-48VAC/DC

Specifications:

Supply:

MODEL	MIN	TYP	MAX	UNIT
MT01328	90	110	120	V AC 50/60Hz
MT01329	20	24	50	V AC/DC

Power: 2VA +/-20%
Operating Temp: 0 – 60° C

Pilot to Earth Resistance:

EC Mode: 5, 10, 15, 20, 25, 30, 35, 40, 45ohms (max)

Remote Start Mode: 105, 110, 115, 120, 125, 130, 135, 140, 145ohms (max)

Start Resistance: 100ohms

Shunt Resistance for Trip: Less than 1Kohms

Trip Delay: 100-500ms

Relay Contacts:
2 x Changeover contacts
5A - 240V AC

Enclosure
Dimensions: 75mmW x 55mmH x 110mmD
Material:
- High impact resistant polycarbonate construction
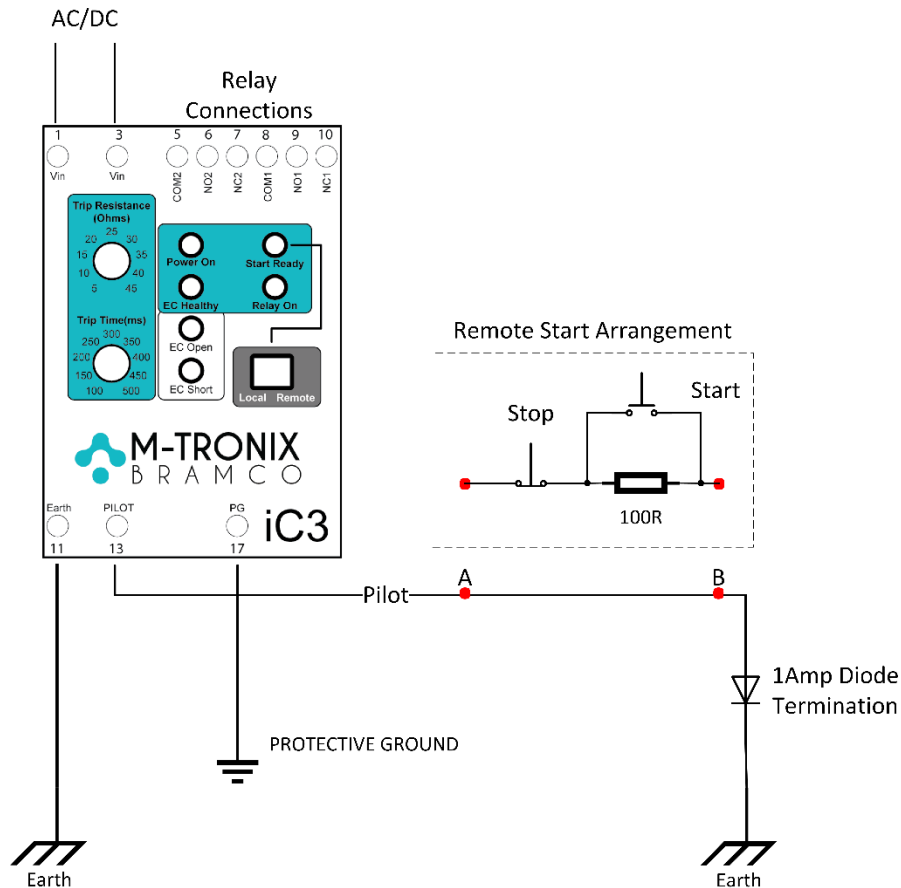- IP20 Rating

Mounting: DIN rail
Terminals: Cage screw terminals
Weight: 216gms

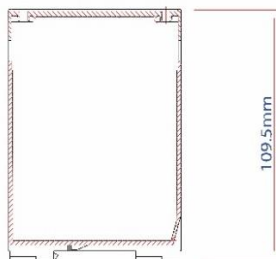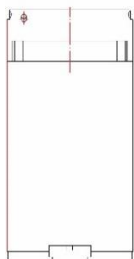This product is designed and manufactured in accordance with ISO9001:2000 certified company.

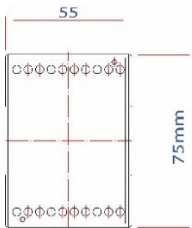# M-TRONIX
BRAMCO
SAFETY INNOVATORS

Exclusive Distributors of All
Bramco Products
40 Years of Unwavering Innovation

iC3

EARTH CONTINUITY RELAY

Wiring Diagram

Enclosure Dimensions

75mm x 55mm x 109.5mm