



M-TRONIX
B R A M C O
SAFETY INNOVATORS



iAB

EARTH LEAKAGE RELAY

PRODUCT OVERVIEW

The i-AB Earth Leakage Relay is part of the authorised and exclusively distributed range of Bramco-originated protection systems. Built, serviced and supported by m-tronix, the custodians of more than forty years of Bramco IP development, the i-AB delivers dependable earth-fault detection for mining and industrial electrical systems.

It complies with the latest statutory and industry standards and is engineered to detect earth-fault currents with precision and reliability.

APPLICATION

The i-AB monitors earth-fault currents flowing in a power system and provides fast, dependable tripping to protect personnel, motors, equipment and electrical infrastructure.

Suitable for:

- Mining equipment starters
- Fixed plant and industrial systems
- Underground and surface installations
- General electrical distribution where earth-fault protection is required

FEATURES

- Machine- or power-operated
- Latching / non-latching mode switch
- Fail-safe or non-fail-safe operation
- Adjustable time discrimination
- Adjustable trip-current set point
- LED indication of power-on
- LED warning when leakage current rises above the trip-current set point
- LED indication when latched
- Current-loop or voltage output (20 mA or 2–10 V)
- Compatible with range of m-tronix Earth Leakage toroids

ORDERING INFORMATION

Part Number	Description
A00019A	500 mA – 500 ms, 100–240 V AC
A01045B	500 mA – 500 ms, 24–48 V AC/DC

SPECIFICATIONS

Supply:

- 100–240 V AC 50/60 Hz (optional)
- 24–48 V AC/DC 50/60 Hz (optional)

Voltage Tolerances:

- -30% to +20%

Material:

- High-impact polycarbonate

Trip Delay:

- Adjustable from 30 to 500 ms
- Optional: 1 sec, 2 sec, 5 sec

Trip Current:

- Adjustable from 50 to 500 mA

ENCLOSURE

Dimensions: 55 mm (W) x 75 mm (H) x 110 mm (D)

Material: High-impact-resistant polycarbonate construction. IP20 rating

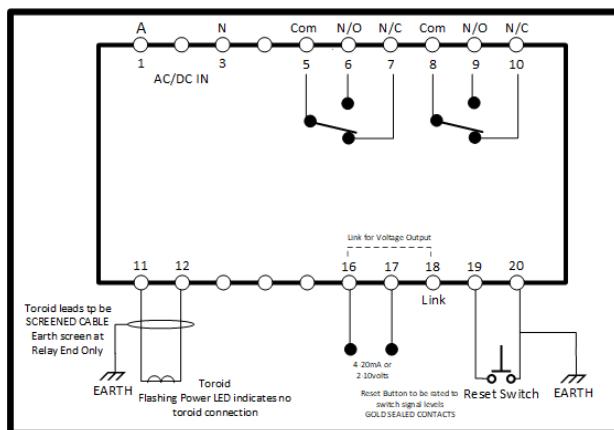
Mounting: DIN rail

Terminals: Cage screw terminals

Weight: 230 g

COMPLIANCE

- N.S.W Mines MDA EXiB 11317
- QLD Mines QMD 947346X
- AS 2081:2002.3-1988 Compliant (approvals apply to 500 mA / 500 ms only)



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