



M-TRONIX
B R A M C O
SAFETY INNOVATORS



BAR3

Isolation Barrier BAR3

PRODUCT OVERVIEW

BAR3 Isolation Barrier is a three-phase high-voltage isolation module engineered to safely interface detection, monitoring and protection equipment with supply systems rated up to 1100 V.

Designed for mining and heavy industrial applications, the BAR3 provides galvanic isolation between high-voltage circuits and low-voltage electronic devices, protecting connected relays and monitoring units from hazardous potentials.

APPLICATION

The BAR3 is compliant with all relevant Australian statutory and industry standards and is designed to:

- Provide high-voltage isolation for relay inputs and detection circuitry
- Enable safe interfacing between 415–1100 V AC systems and m-tronix protection devices
- Ensure safe operation of NER monitoring, voltage monitoring and EL/EC relays
- Prevent damage to sensitive electronic equipment during abnormal voltage conditions

Suitable for:

- Mining substations
- Underground and surface HV distribution
- Longwall, conveyor and pump starter systems
- Neutral earthing resistor (NER) monitoring applications
- Any installation where high-voltage isolation is required

FEATURES

- Three-phase isolation barrier for 415–1100 V AC systems
- High-voltage isolation between supply circuit and detection circuits
- Designed specifically for use with m-tronix NER monitors and protection relays

- Robust, stable operation in harsh mining environments
- Compact, panel-mountable enclosure
- High dielectric strength for operator and equipment safety
- Proven reliability in underground and surface mining applications

SPECIFICATIONS

- 415 - 1100-volt input
- 24-volt AC output
- Supplied complete with mounting bracket.

ENCLOSURE

Dimensions: (Insert when provided)

Material: High-impact resistant polycarbonate

Mounting: DIN rail or panel mount

Terminals: Cage screw terminals

Rating: IP20

ORDERING INFORMATION

Part Number	Description
A01180	BAR3 Isolation Barrier — 415–1100 V

COMPLIANCE

- **AS 2081:2011** (relevant live-line indication requirements)
- For mining and industrial electrical protection systems
- Manufactured to applicable AS/NZS and IEC standards
- ANZEx 11.3014X

