

i-F Frozen Contactor Relay

Overview:

m-Tronix is your authorised and exclusive, distributor of the range of Bramco electronic products, industry leaders since 1945. Utilising these designs, as continuously developed by the Leishman family since 1984, and their engineers, m-Tronix builds, services and supports these advanced, innovative products, known and widely used, as Bramco.

The i-F is designed to detect a leakage of voltage across a switching device of 24volts or more when the switching device is supposedly in the open or tripped position. A barrier is used in conjunction with this relay. The barrier is a three-phase unit used to isolate high voltages from the detection equipment. As the barrier is a three-phase unit leakage on any or all of the phases being monitored will be detected and cause a trip. The detection circuit is non fail safe and energises on detection of leakage. The unit is internally powered from the power supply card.

Application:

The M-TRONIX i-F has been designed to detect a voltage leak across the contacts of any type of electrical switching device for the protection of personnel from electrical shock or the risk of electrical sparking.

Features:

- Internal Power Supply
- Timer delay function adjustable to 4 – 20sec and 10 – 60sec (depending on model)
- seconds for situations where the system is directly switching motors
- Detection circuit is non-fail safe and energises on detection of leakage
- Factory set to detect a leakage of 24 volts or more.
- LED indication of power on
- LED warning when the Frozen Contactor/Loss of Vacuum Fault rises
- Usage in conjunction with a precision Isolation Barrier suitable for systems up to 1100v.

Ordering Information:

MT00210: i-F Relay 110vAC/240vAC
MT01241: i-F Relay 24-48vAC/DC

Specifications:

Supply:

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

Operational for 25 seconds on removal of module supply.

Power: 3VA +/-20%

Operating Temp: 0 – 60° C

Leakage: Factory set to detect 24 volts or more

Relay Contacts:

- 2 x Changeover contacts
- 5A - 240V AC

Enclosure:

Dimensions: 75mmW x 55mmH x 110mmD

Material:

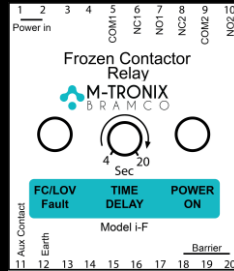
- High impact resistant polycarbonate construction
- IP20 Rating

Mounting: DIN rail

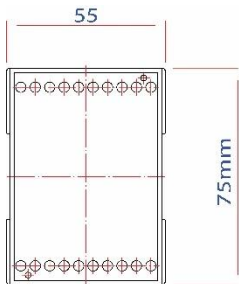
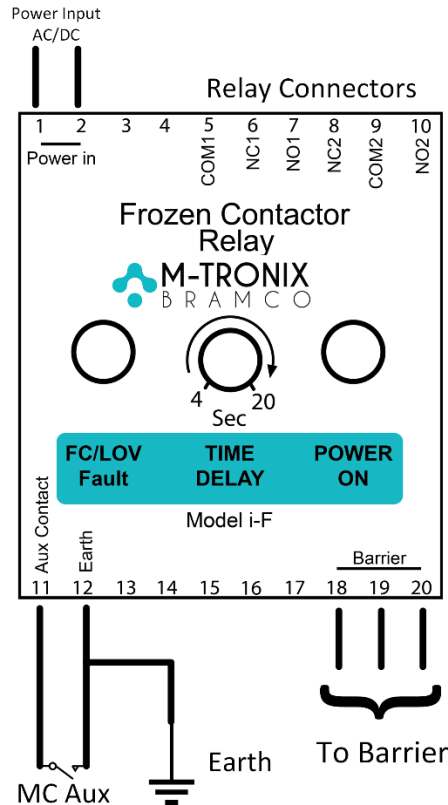
Terminals: Cage screw terminals

Weight: 216gms

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

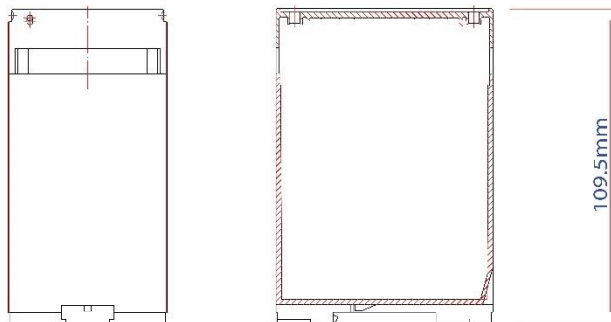


i-F Wiring Diagram



Enclosure

Dimensions: 55mmW x 75mmH x 110mmD



M-TRONIX Contacts

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Compliance:

AS/NZS 2081:2011
The i-F comes with
a 2-year warranty.