

992831-01.cdr

Description

Description: The A60E-2 Line Isolator Module, is used to protect a Class A data line from total collapse due to wire-to-wire short circuits. The A60E-2 Line Isolator Module monitors line voltages and opens the data line when a short is detected. A short is isolated between the two modules located electrically closest to the short. The modules do not require addresses, therefore allowing up to the full system capacity of 127 line devices on each loop.

The A60E-2 Line Isolator Module can be mounted in a North American 2-1/2 in (64 mm) deep 2-gang box, standard 4 in square 1-1/2 in (38 mm) deep box, or European 100 mm square box. The terminal blocks accept 12, 14, 16, or 18 AWG wire (2.5 mm², 1.5 mm², 1.0 mm², or 0.75 mm²). Sizes 16 and 18 are preferred.

Specification

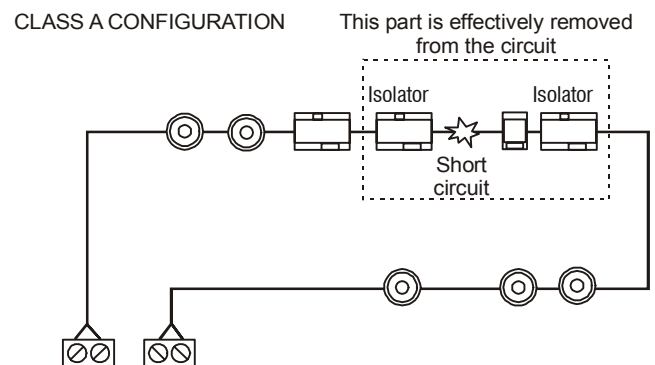
Operating voltage: 20 volt pulsed analogue loop (19.5V to 20.5V). Max line drop 4V
Standby current: 600 µA
Maximum circuit resistance between isolators: 18 Ω
Operating temperature range: -10°C to +75°C
Operating humidity range: 20% to 95% RH (non condensing)

WARNING:

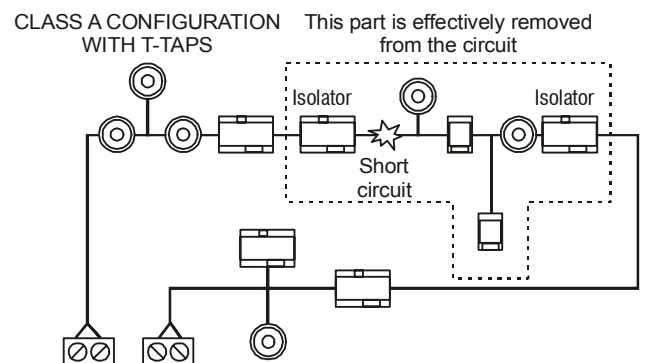
- This module has been designed to comply with PR EN54-17 Standard. The operation of the device may be impaired if used in conditions or circumstances, which do not comply with those tested for and allowed in the PR EN54-17 Standard. The supplier will not be liable for any injury suffered or damage which may arise if the module is used in conditions or circumstances which do not comply with those tested for and allowed in the PR EN54-17 Standard. You must contact our technical support division for advice if the device is to be used in conditions, which differ from those prescribed in the PR EN54-17 Standard.
- This module will NOT operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

Application information

In a Class A circuit, a short will be isolated between the two Line Isolator Modules located electrically closest to the short as shown in the two configurations below.



Loop controller



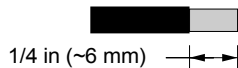
Loop controller

Installation Instructions

1. The A60E-2 Line Isolator Module is shipped from the factory as an assembled unit; it contains no user-serviceable parts and should NOT be disassembled.
2. Verify that all field wiring is free of opens, shorts, and ground faults.
3. Make all wiring connections as shown in the wiring diagram.

NOTE: Wire in accordance with NFPA70-1996, National Electrical Code Article 760, Section 760-54(a)(1), Exceptions No. 2 and 3, or to equivalent local wiring codes.

Wiring Stripping Guide



Strip 1/4 in (about 6 mm) from the ends of ALL wires that connect to the terminal block of the module.

CAUTION Exposing more wire may cause a short, which may cause a ground fault. Exposing less wire may result in a faulty connection.

Mounting

Mounting options include:

1. A din rail method for mounting multiple/single units.
2. Adaptor plates for accessory box mounting
3. Single box mounting options

Wiring Diagram

