

HM-DISO-UL FAULT ISOLATOR MODULE

General

The HM-DISO-UL Fault Isolator Module is used with the fire alarm control panels (FACPs) to protect the system against wire-to-wire short circuits on the SLC loop. The HM-DISO-UL should be placed between each device on the SLC loop to isolate a short circuit problem between the modules. It is required for true Style 7 operation, so that other devices can continue to operate normally in the event of a short circuit on the SLC.

Applications

The Fault Isolator Modules should be spaced between groups of sensors in a loop to protect the rest of the loop. The HM-DISO-UL supports a maximum of 25 devices in between isolators.



HM-DISO-UL

FEATURES & BENEFITS

- Powered by SLC loop directly, no external power required
- Mounts in standard junction boxes (4.0"/10.16 cm square, 2.125"/5.398 cm deep)
- Integral LED blinks to indicate normal condition and illuminates steady when short circuit condition is detected
- High noise (EMF/RFI) immunity

HM-DISO-UL Technical Specifications

PARAMETER	SPECIFICATION
Operating voltage	15 – 32 VDC (peak)
Maximum current upon activation due to short circuit	Refer to the manual for the main FACP
Standby current	450 μ A maximum; HM-DISO-UL is not isolated through a closed relay
Temperature range	32°F to 120°F (0°C to 49°C)
Relative humidity	10% to 93%
Weight	5 oz. (150 grams)
Dimensions	4.5"H x 4.5"W x 0.25" D (11.43 cm H x 11.43 cm W x 0.635 cm D)

Construction

The face plate is made of off-white plastic. Module includes yellow LED indicator that pulses to indicate normal conditions and illuminates steady when a short is detected.

Operation

The circuit is automatically opened when the voltage line drops below four volts. Fault Isolator Modules should be spaced between groups of addressable devices (maximum 25), in a loop that protects the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the groups of sensors between them. The remaining units on the loop continue to fully operate.

The HM-DISO-UL Fault Isolator Module automatically restores the shorted portion of the communications loop to normal.

Installation

- Mount on a standard junction box (4.0"/10.16 cm square) which is at least 2.125"/5.398 cm deep
- Terminal screws are provided for "in and out" wiring
- Installation instructions are provided with each module
- Surface mount box available

Engineering Specifications

Fault Isolator Modules shall be provided to automatically isolate wire-to-wire short circuits on an SLC loop. The Fault Isolator Module limits the number of modules or detectors that may be rendered inoperative by a short circuit fault on the SLC Loop. If a wire-to-wire short occurs, the Fault Isolator Module automatically disconnects the SLC loop. When the short circuit condition is corrected, the Fault Isolator Module automatically reconnects the isolated section of the SLC loop. The Fault Isolator Module doesn't require any address, as operations switch to automatic mode. Replacing or resetting the Fault Isolator Module is not required, after operating normally. The Fault Isolator Module shall mount in a standard 4" (10.16 cm) deep electrical box, in a surface mounted backbox, or in the Fire Alarm Control Panel. It provides a single LED that flashes when the Isolator is operational and illuminates steadily to indicate that a short circuit condition has been detected and isolated.

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S35595

Product Line Information

PARAMETER	SPECIFICATION
HM-DISO-UL	Isolator module
SMB500	Optional surface-mount backbox

For more information,

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