

Description

Harding fire control systems provides for Addressable Loop Modules (ALM3-IP) that may be installed throughout a protected facility in any number up to the system maximum of 50 modules. Harding ALM3-IP modules offer addressable signaling line (SLC) circuits that may each have up to 126 detectors or 126 addressable control devices in any combination.

Harding Series 21 addressable devices offer a broad range of input/output capabilities to any application via the ALM3-IP SLC.

Switch Monitors

The switch monitors are designed to monitor the state of one or more single-pole, volt-free contacts connected on a single pair of cables.

IOM2104, IOM2109, IOM2101

The Point Identification Module (IOM2104), Mini Point Identification Module (IOM2109) and DIN rail version (IOM2101) of switch monitors can report Fire Alarm, Pre-Alarm, Supervisory Alarm, Trouble and Input On events. In addition, these modules may be programmed to provide remote Acknowledge, Signal Silence and Reset functions.

IOM2105, IOM2108

The Priority Input Device (IOM2105) and the Mini Priority Input Device (IOM2108) incorporate the **priority interrupt feature**. These devices are used where a fast response is required (as with pull stations). Priority interrupt switch monitors **report Fire Alarm or Supervisory alarm events**.

IOM2104 and IOM2105 are designed to fit a standard 4" box. NEMA OS 1-1989 or equivalent. IOM2108 and IOM2109 are contained in a simple two-piece plastic box suitable to fit into a single-gang junction box. These devices each have 6 flying leads (18 AWG wire).

Dual Priority Switch Monitors

The Harding S21 Dual Priority Switch Monitor Module (IOM2103) is designed to monitor the state of one or more single-pole, volt-free contacts connected on a single pair of cables on two separate circuits.

The IOM2103 incorporates the priority interrupt feature on each of its two available circuits. Priority interrupt is used where a fast response is required (as with pull stations). Priority switch monitors produce output states of normal, off-normal and alarm. These devices do not produce pre-alarm output states.

Sounder Control Modules

The Harding S21 Sounder Control Module (IOM2107) is an addressable device that provides a means to remotely locate a fully supervised circuit for the operation of signal appliance such as horns, strobes and horn/strobes.



Features

- Plate mounted versions available for surface/flush mounting in 4" square boxes
- DIN rail switch monitor mounting option
- Mini-Version switch monitors with flying leads for compact field installation
- Priority Interrupt switch monitor available for fast status reporting
- Dual-input priority interrupt switch monitors
- High voltage relay output modules
- Field programmable
- Fully supervised
- LED for polling/alarm annunciation
- Class A or B operation
- DIL switch addressing
- RoHS Compliant

Listing

UL File: S36050

The IOM2107 can also monitor and control PA speaker circuits from the main Harding control system via the SLC.

The IOM2107 module incorporates a synchronization facility which allows the outputs of groups of modules to be synchronized by commands from the Harding control panel. Multiple IOM2107 devices may be programmed to multiple Group Addresses through the Group Addressing switch (S2).

Switch Monitor I/O Modules

The Harding S21 Switch Monitor I/O Modules (IOM2106, IOM2102, IOM2110) provide for two different types of input and one relay output all on single addressable module that consumes only one device address.

The IOM modules are loop powered devices that incorporate:

1. a supervised input circuit for switch monitoring, or,
2. a non-supervised opto-coupled input (open collector) for the monitoring of 12 or 24VDC input voltages
3. a volt-free relay output

The supervised inputs are designed to monitor the state of one or more single-pole, volt-free contacts connected on a single pair of cables and may be wired in either a Class A or B (Style D or B) fashion.

The non-supervised opto-coupled open collector input circuit can be used to monitor for the activation of any 12 or 24VDC circuit. Supervision is not required if the connection length is less than 3 feet.

The volt-free relay is fired programmatically through the Harding fire control system and NOT automatically (by simple activation of the input - unless programmed to do). The relay portion of the I/O Module may be activated by any other input device on the system independent of the status of the two input circuits located on the same card. This allows the I/O Module to truly function as two distinct addressable controls while only occupying a single SLC address point in a cost-effective application.

Relay Output Modules

The Harding Relay Output Module (IOM2111) is an addressable device that is a means of connecting to and controlling building functions such as electromagnetic door holders, dampers, motors, elevators and disconnects from the main Harding fire control system.

Single or multiple initiating points on the Harding fire control are assigned to specific IOM2111 modules that may be connected anywhere on the SLC. When an event is generated by an initiating device, the pre-programmed assignment automatically fires the Form C dry contacts located on the IOM2111 effecting a change in status to the attached building control device(s).

