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 switch monitors IOM2101, IOM21104, IOM2105, IOM2108 and IOM2109 are addressable devices that are a means of connecting and identifying conventional monitor points at the main Harding fire control system. Switch monitors connect to the SLC, are programmed via an 8 pin DIL switch (1-7 for addressing, 8 for Class A/B), are polarity insensitive and are used to monitor a single Class A or B (Style D or B) circuit.

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.

In standby mode, the switch monitor modules all monitor their internal circuitry for status of the device itself and supervise the switch circuit for faults. In the event a fault is detected, the modules will report a trouble to the Harding fire control. Harding switch monitors are available in two varieties (standard or priority-interrupt) under two different constructions (plate mounted for 4" boxes/mini-module with flying leads for use in a single gang box).

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).

These devices all use end of line monitoring resistance of 47k'Ω.

Features

- Plate mounted versions available for surface/flush mounting in 4" square boxes
- DIN rail mounting option
- Mini-Version with flying leads for compact field installation
- Priority Interrupt versions available for fast status reporting
- SmokeClear™ alert signals when smoke has cleared the initiating device chamber or
- Pull Station(s) have returned to normal position
- Field programmable
- Fully supervised
- LED for polling/alarm annunciation
- Monitors dry contact devices
- Class A or B
- DIL switch addressing
- RoHS Compliant

Listing

UL Standard 864 9th Edition

Represented by:

ISO 9001 Registered Quality Systems

Engineer Specification

The contractor shall furnish and install, where indicated on the plans, addressable interface devices for the monitoring and supervision of contact type devices connected to the Fire Alarm control. The devices shall monitor a normally open dry contact. The addressable interface devices shall communicate to the main fire control via the addressable circuit. The addressable interface device must be UL listed and UL listed as compatible with Harding network fire controls. The addressable interface device shall be Harding part numbers IOM2101, IOM2104, IOM2105, IOM2108 and

Technical Data

All Devices:
Current Consumption: 600 μA typically
LED on: 4.6 mA
Operating Temp: -4°F to 158°F
Humidity: 0% to 95% (no condensation or icing)
Shock: To UL 864
Vibration: To UL 864

IOM2104, IOM2105:
Dimensions: 4 ½"W x 4 ½"H x 1 ¾"D
Weight: 3 oz
LED visible through fascia plate label

IOM2108, IOM2109:
Dimensions: 3"W x 1 3/4"H x ¾"D
Weight: 1.5 oz

Ordering Information

Part Number	Description
IOM2104	S21 Switch Monitor Module
IOM2109	S21 Mini Switch Monitor Module
IOM2105	S21 Priority Switch Monitor Module
IOM2108	S21 Mini Priority Switch Monitor Module
IOM2101	S21 DIN Rail Switch Monitor Module

Related Modules

Part Number	Description
IOM2106	S21 Switch Monitor I/O Module, Low Voltage
IOM2107	S21 Sounder Control Module
IOM2103	S21 Dual Priority Switch Monitor Module
IOM2111	S21 Relay Output Module
IOM2102	S21 Switch Monitor I/O Module, 120V AC
IOM2110	S21 Switch Monitor I/O Module, 120V AC

Related Data Sheets

Series 21 Detectors: PHOTO (DET2104), DS-DET2104; HEAT (DET2101), DS-DET2101; MULTI (DET2105), DS-DET1205;
Series 22 Detectors: PHOTO (DET2204), DS-DET2204; HEAT (DET2201), DS-DET2201; MULTI (DET2205), DS-DET2205;
Addressable Base Options: All Bases, DS-DET2310

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