Description

The architecture of an FxIP™ fire control network by Harding is comprised of a series of IP-based distributed modules

The Addressable Loop Module (ALM3-IP) communicates with all other modules installed on the network through an Ethernet connection and is addressed through the ALM3-IP unique IP address.

The ALM3-IP manages Class A/B Signaling Line Circuits (SLC), Class A/B Notification Appliance Circuits (IOC/NAC) or both, depending on the module configuration. The number of each type of circuit is specified by the trailing 2 digits in the ALM3-IP part number. Thus, an ALM3-IP-12 would have a single SLC and two IOC/NAC circuits.

Once programmed, each ALM3-IP maintains an integral 3000 event history log and will continue to operate its connected circuits even if communication with the remaining network is severed. Upon joining the network, the ALM3-IP will synchronize its data with the other modules.

ALM3-IP modules may be located anywhere within a facility and can be packaged in a FC-250 or AC-100.

A remote ALM3-IP can draw power from a central location or can be furnished with an integral 24V, UL Listed power source and battery charger. ALM3-IP's may be added to the network in any number up to the system maximum module count of 49.

Each power limited IOC/NAC circuit on an ALM3-IP can be synchronized to any other on the same board. IOC/NAC's are rated at 24V/3A each. Each SLC loop supports up to 126 addressable devices (Series 21 I/O, Series 22 or both on the same SLC circuit) as well as a variety of addressable input/output modules.

Harding network fire controls feature SmokeClear™ to report when smoke has cleared the chamber of any detection device. This information is reported to the panel and recorded in the history log allowing first responders to determine the length of time that smoke was present at any given location when evaluating conditions upon arrival. SmokeClear™ will also put a notification on the system when pull stations have been reset signaling that the Harding control panel can be reset.
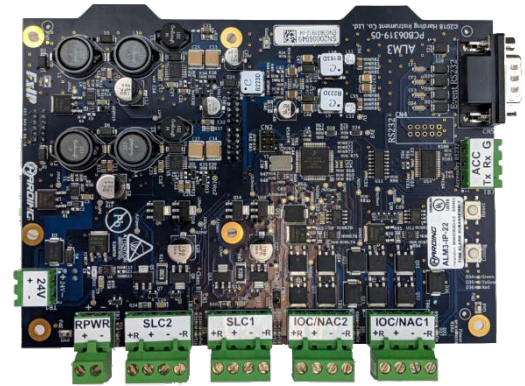
Features

- Unique IP address
- 3000 event history log per module
- May be distributed through facility in any number up to system max of 50 modules
- Continues to operate with loss of system communication
- Synchronizes data with network when communication link is restored
- SmokeClear™ alert signals when smoke has cleared detector chamber
- Can be distributed alone, with other modules, with central or local power
- Supports SLC circuits, IOC/NAC circuits - or a combination of each
- Power Limited Class A/B IOC/NAC circuits rated at 24V/ 3A each
- Each Class A/B SLC circuit supports 126 XP and Discovery detectors and devices on same circuit
- 1A/24VDC resettable power connection
- Modular listing
- RoHS Compliant

Listing

UL Standard 864 9th Edition

HARDING

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ISO 9001 Registered Quality Systems

Represented by:
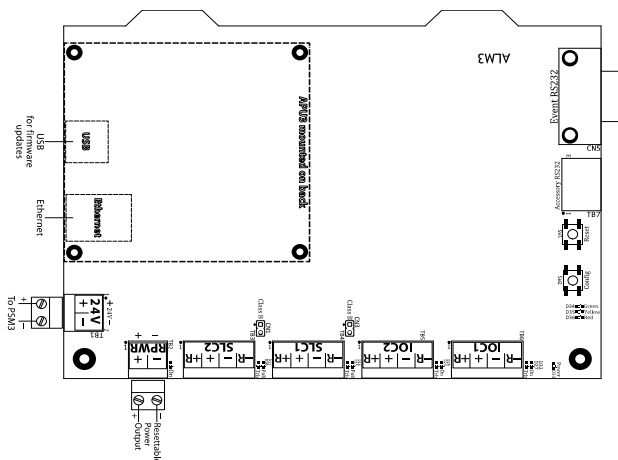
Wiring Terminals

TB6	Integral Output 1
TB5	Integral Output 2
TB4	SLC 1 Addressable Device Loop
TB2	Resettable Power Out
TB1	Power Connector
TB7	Accessory Port

Specification

Power regulated 1A at 24 Vdc

ALM3-IP-22
Quiescent Power Draw: 144 Ma
Alarm Power Draw: 159 mA

ALM3-IP-20
Quiescent Power Draw: 131 Ma
Alarm Power Draw: 131 mA

ALM3-IP-12
Quiescent Power Draw: 123 mA
Alarm Power Draw: 137 mA

ALM3-IP-10
Quiescent Power Draw: 114 mA
Alarm Power Draw: 114 mA

ALM3-IP-02
Quiescent Power Draw: 97 mA
Alarm Power Draw: 111 mA

Each SLC Circuit/All Models
Max Circuit Voltage: 24V
Max Current: 1.0A

Each IOC/NAC Circuit/All Models
Max circuit voltage: 24V
Max Current: 3A
Regulated 24Vdc – 300mA
Max RMS Operating Current (Single Notification Appliance: 0.25A)

Maximum allowed:
System max: 50
Power Limited

Ordering Information

Part Number	Description
ALM3-IP-10	ALM3-IP Module with 1 1A/24V SLC, 0 3A/24V IOC/NAC Circuits
ALM3-IP-02	ALM3-IP Module with 0 1A/24V SLC, 2 3A/24V IOC/NAC Circuits
ALM3-IP-12	ALM3-IP Module with 1 1A/24V SLC, 2 3A/24V IOC/NAC Circuits
ALM3-IP-20	ALM3-IP Module with 2 1A/24V SLC, 0 3A/24V IOC/NAC Circuits

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