
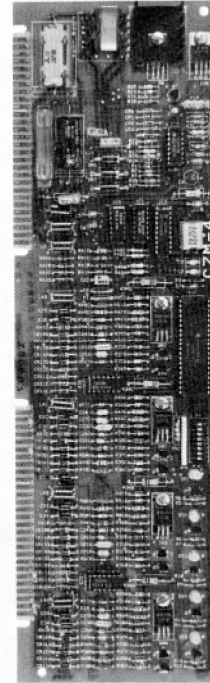


CZM-4

Conventional Zone Module

ENGINEER AND ARCHITECT SPECIFICATIONS

- Four Conventional Initiating Device Circuits
- Supports the Use of:
 - 30 Two Wire Photo or Ion Detectors Per Circuit
 - Projected Beam Detector (Limit 1 Per Zone)
 - Unlimited Shorting Devices
 - Detector Relay Bases
 - Audible Bases
 - Remote Indicator Lamps
- Class A (Style D)
- Class B (Style B)
- On-Board Microprocessor
- 32 Character Custom Alphanumeric Message Per Zone
- Optional Alarm Verification by Zone
- Walk Test by Zone
- Circuits Power Limited per NEC 760
-  Listed, ULC Listed, FM, CSFM, NYMEA and City of Chicago Approved



Description

The Conventional Zone Module CZM-4 is used with the MXL to provide four Class A (Style D) or Class B (Style B) conventional initiating device circuits. Each circuit can monitor up to 30 Cerberus Pyrotronics two wire photoelectric or ionization smoke detectors and an unlimited number of normally open contact devices. Projected Beam Detectors may also be used. The CZM-4 circuits will support the use of Detector Relay Bases, Audible Bases and remote indicator lamps. Activation of any device on a circuit will initiate a zone alarm condition resulting in the operation of programmed functions. Any circuit in the alarm or trouble condition will be identified by a user specified 32 character alphanumeric message displayed on the MXL LCD annunciator.

Each of the CZM-4's circuits are designed to function in a local "Degrade" mode during failure of the MXL main processor or the loss of the system communication network. While in the "Degrade" mode the CZM-4 is still capable of reporting both alarm and trouble conditions and activating local outputs.

Any or all of the CZM-4 circuits can be programmed to operate with the "Alarm Verification" feature. This feature allows the automatic verification of alarm conditions caused by smoke detectors in order to prevent nuisance alarms.

The CZM-4 module plugs into one full slot in the MOM-2 or MOM-4 expansion card cage. Up to two CZM-4 modules may be plugged into a MOM-4 card cage.

Engineer and Architect Specifications

Conventional two wire initiating devices such as smoke detectors, heat detectors, manual stations and sprinkler waterflow switches shall be connected to circuits provided by the Cerberus Pyrotronics Conventional Zone Module CZM-4 plugged into the MOM-2 or MOM-4 expansion card cage. Each zone shall support the use of up to 30 Cerberus Pyrotronics two wire smoke detectors and an unlimited number of UL listed shorting devices. Zones shall also support the use of compatible Projected Beam Detectors, Detector Relays, Audible Bases and Remote Indicator Lamps. Each CZM-4 shall provide four independent Class A (Style D) or Class B (Style B) initiating device circuits.

Each conventional zone module shall contain an on-board microprocessor. Initiating device circuits shall be capable of a local "Degrade" mode of operation during failure of main system processor or loss of the communication network. During main system processor failure or loss of

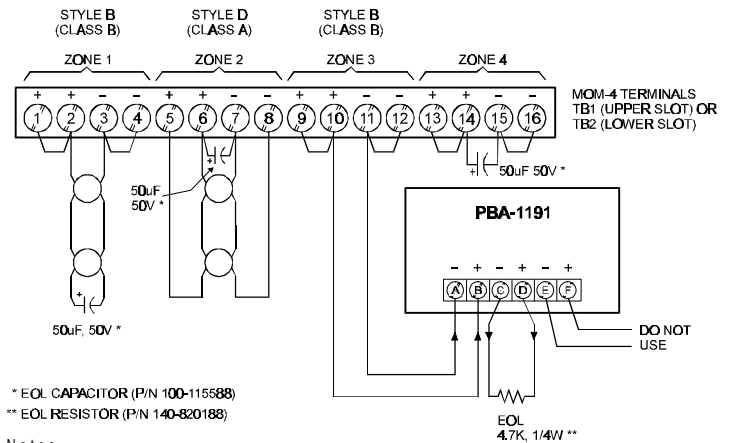
communication network, initiating device circuits shall be capable of reporting both alarm and trouble conditions and shall be capable of activating local alarm indicating circuits.

In order to minimize standby battery drain, the end of line supervisory devices should be non-current drawing 50VDC 50uf capacitors. With beam detectors an EOL resistor must be used.

The CZM-4 shall plug into one full slot in the MOM-2 or MOM-4 expansion card cage. It shall interface with the MOM-2 or MOM-4 using gold plated edge connectors. Up to two CZM-4 modules may be plugged into one MOM-4.

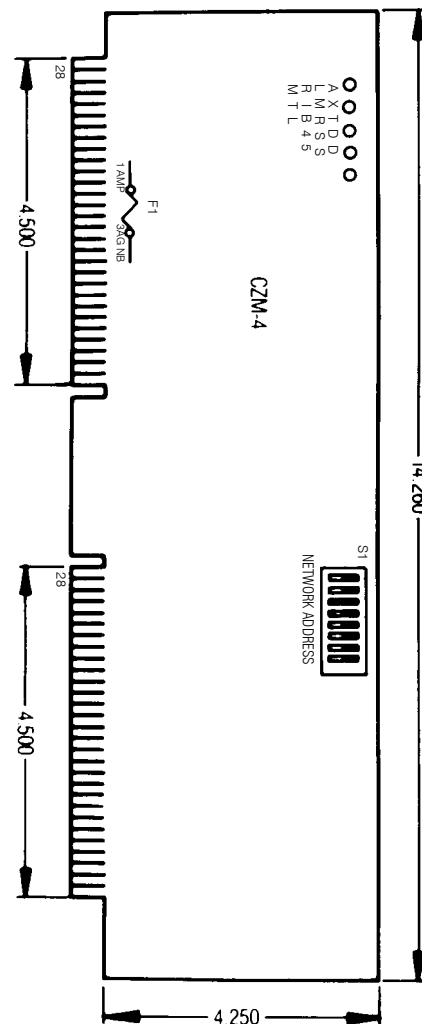
Each circuit on the CZM-4 shall be assigned a 32 character custom alphanumeric message which will be displayed on the MXL LCD annunciator when any device attached to that circuit is activated or when any wiring fault (open or shorted circuit wiring) exists on that circuit.

Wiring Diagram



- Notes:
1. All Circuits can be class A or class B
 2. All circuits are power limited per NEC 760
 3. All circuits are supervised
 4. Do not connect more than one PBA-1191 to each zone (Refer to the PBA-1191 instructions, P/N 315-094912 for further information).
 5. Do not mix smoke detectors with the PBA-1191
 6. Maximum resistance: 70 OHMs/circuit
 7. The PBA-1191 requires Rev 3 or higher of CZM-4 software

Dimensional Data



Electrical Specifications

ELECTRICAL CONNECTIONS

1. Initiating device circuits:

Voltage range	20-24.5 VDC
Supervisory current	4mA max.
capacitor EOL	
Alarm current	9mA max. resistor EOL 180mA max. per zone

2. Initiating devices per zone:
Up to 30 detectors, any combination of those in No. 3 below. Up to five waterflow switches may be used. Any number of direct shorting devices may be used. Wiring may be Style D (Class A) or Style B (Class B).

3. The UL identifiers for compatibility are the same as the model names specified below. Compatible Cerberus Pyrotronics detectors are:

Detector	Installation Instructions
DI-3/3H	P/N 315-081943
DI-A3/A3H	P/N 315-081943
DI-4A/4H	P/N 315-085257
DI-6	P/N 315-085257
DI-B3/B3H	P/N 315-086590
	P/N 315-086591
	P/N 315-086592
PE-3000/3000T	P/N 315-086441
PE-3/3T	P/N 315-086545
PBA-1191	P/N 315-094912

4. All circuits are power limited to NFPA 70 per NEC 760. Each detector or group of detectors must use a two wire circuit of at least 18 AWG thermoplastic fixture wire enclosed in conduit, or 18 AWG limited energy shielded cable without conduit, if permitted by local building codes.
5. Total circuit resistance must not exceed 70 ohms, 40 ohms if relay bases are used.



Cerberus Pyrotronics
8 Ridgedale Avenue
Cedar Knolls, NJ 07927
Tel: (201) 267-1300
FAX: (201) 267-7000

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5M
CPY-IG
Printed in U.S.A.

Cerberus Pyrotronics
50 East Pearce Street
Richmond Hill, Ontario
L4B, 1B7 CN
Tel: (905) 764-8384
FAX: (905) 721-0180

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