



SIEMENS CZM-1B6 Remote Conventional Zone Module Instruction Manual

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CZM-1B6 Remote Conventional Zone Module Instruction Manual

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OPERATION

The Model CZM-1B6 from Siemens Industry, Inc., is an MXL intelligent device that connects a single zone of conventional devices to an analog loop.

The CZM-1B6 can power up to fifteen compatible 2-wire, ionization or photoelectric smoke detectors.

It can also monitor an unlimited number of shorting devices such as waterflow switches, thermal detectors, manual stations, etc.

Each CZM-1B6 can be assigned a 32 character custom alphanumeric message. A multicolor LED, visible through the cover plate, indicates the condition of the circuit. This multicolor LED displays red for alarm, yellow for trouble, and green for normal operation (See Figure 1).

The CZM-1B6 supports Class A and Class B wiring. The module uses one address on the analog circuit. It does not require any mechanical address programming. Use Model DPU Device Programming Unit or FPI-32 Programmer/Tester to program and test the module.

For additional information on the MXL/MXLV System, refer to the MXL/MXLV Manual, P/N 315-092036.

SETTING THE MODULE ADDRESS

1. Using the DPU Device Programming Unit or FPI-32 Programmer/Tester, plug the programming cable into the programming receptacle on the CZM-1B6 (See Figure1).
2. Set the System address for the CZM-1B6 by following the instructions in the FPI-32 Programmer/ Tester Manual, P/N 315-090077, or the DPU User's Manual, P/N 315-033260, as appropriate.

NOTE: With FPI-32 Rev. 1.3 software, only 1=MXL mode should be used when programming a device.

INSTALLATION

Remove all system power before installation, first battery and then AC. (To power up, first connect the AC and then the battery.)

Electrical Connections

After you have set the CZM-1B6 address, connect the field wiring. There are three basic connections to the CZM-1B6. All terminals are power limited.

1. Initiating Devices (Figures 2, 3, and 4)

The CZM-1B6 supports one zone of initiating devices in either Class A or Class B. The initiating devices are connected to terminals 5–8 on the CZM-1B6 terminal block. Figure 2 shows the Class A wiring. Figure 3 shows the Class B wiring.

Figure 4 shows the wiring for the PBA-1191 beam detector. When the PBA-1191 is used, the 2-position plug from jumper J1 must be removed. Follow the steps listed below:

- a. Remove the screw from the center of the CZM-1B6 plastic cover and place it to one side.
- b. Remove the circuit board and locate jumper J1.
- c. Remove the 2-position plug from J1.

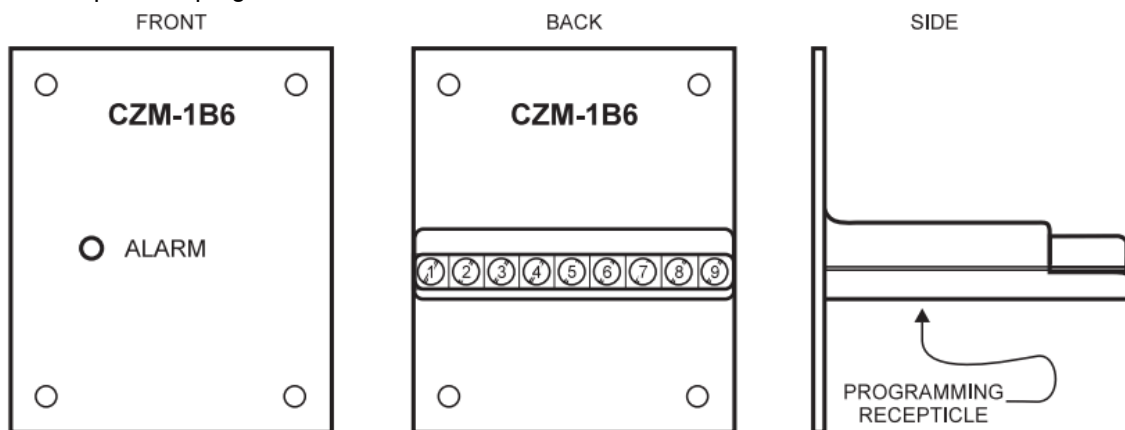


Figure 1
Model CZM-1B6

- d. Reassemble the circuit board and plastic cover using the screw that was removed in the first step.
- e. Be sure to use the correct end of line device with the CZM-1B6 in this configuration.

The devices in the tables at the right are listed for use with the CZM-1B6. Use up to fifteen detectors, any combination of those listed. Only one PB-1191 or one DF-1192, and no additional devices, can be connected to a CZM-1B6. Detector operated accessories cannot be used with the CZM-1B6. The model numbers listed are the UL compatibility identifiers.

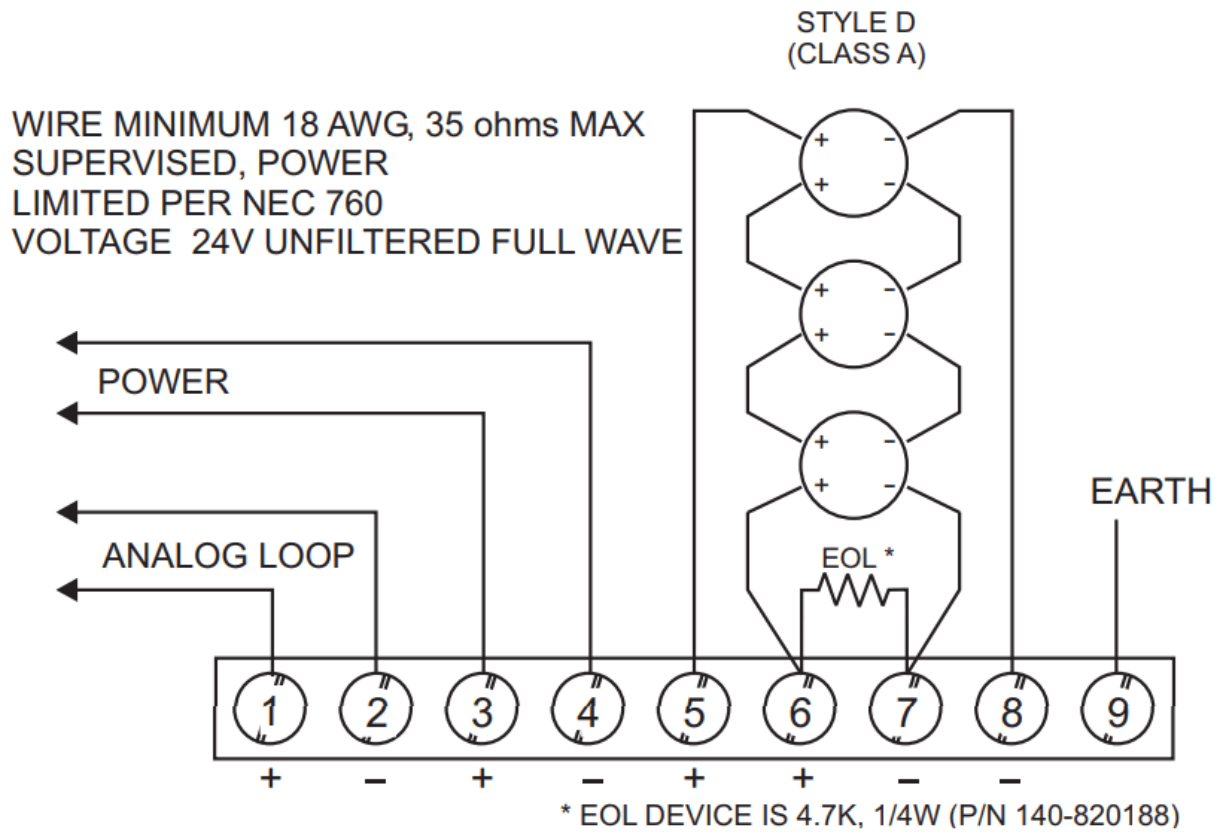


Figure 2 CZM-1B6 Wiring Diagram (Initiating Devices) Class A (Style D) Installation

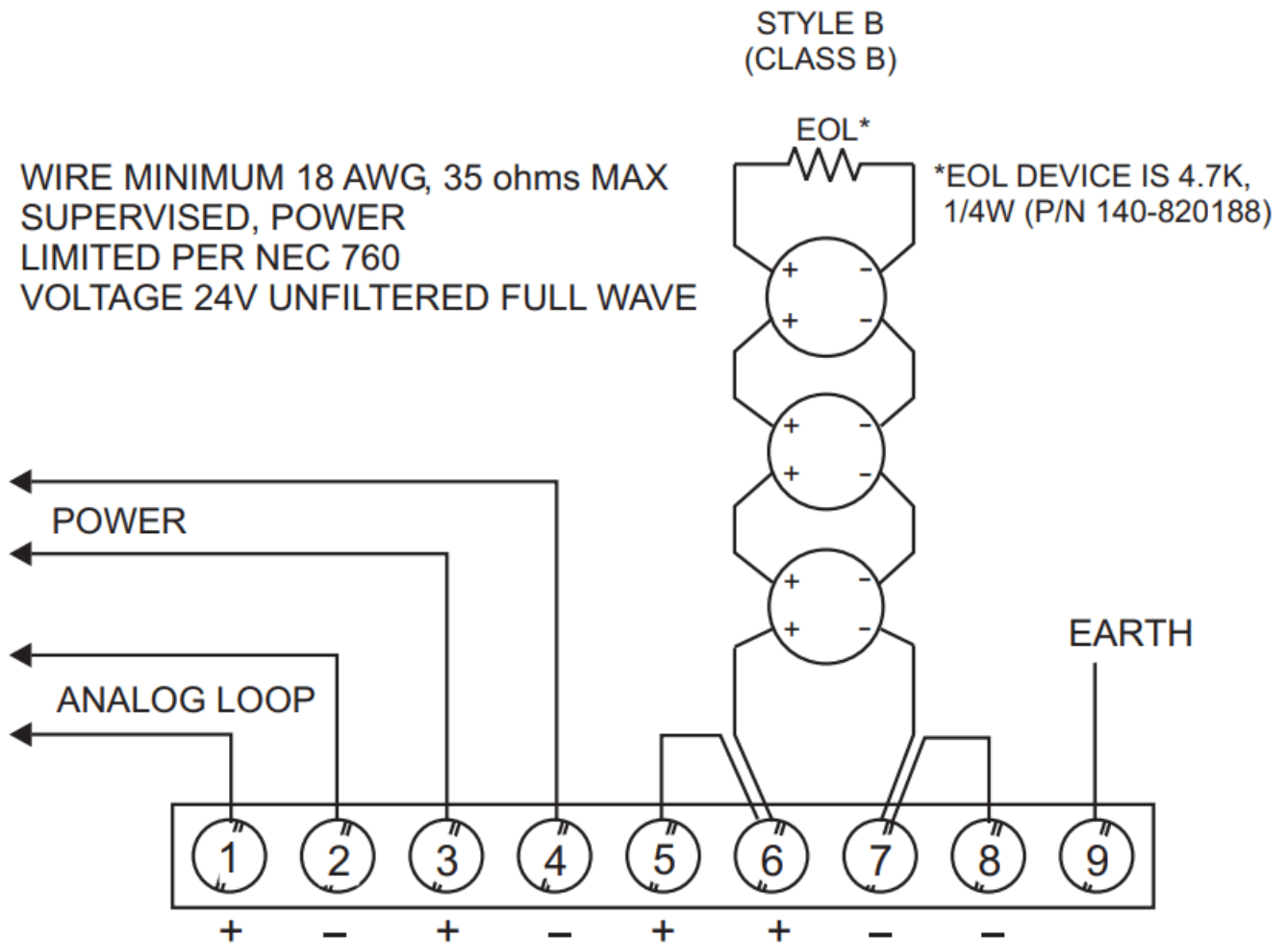


Figure 3 CZM-1B6 Wiring Diagram (Initiating Devices) Class B (Style B) Installation

6B1-MZCrofytilibitapmoC

Detector	Base	Installation Instructions Part Number
DI-3/3H	DB-3S	315-081943
D I-A3/A3H	DB-3S	315-081943
DI-B3/B3H	AD-31	315-093234
DT-3P-135"	DB-3S	315-017545
DT-11	DB-11	315-095429
	DB-3S with DB-ADPT	315-095429
PBA-1191	PBB-1191	315-095424
PE-3	DB-3S	315-090875
	AD-3ILP	315-093234
PE-11/11T	DB-11	315-094198
	DB-3S with DB-ADPT	315-094198
	AD-11P	315-095659

May use up to 15 detectors of any type.

* Only one PBA-1191 or one DF-1192, and no additional devices, can be connected to a CZM-1B6.

Intrinsically Safe (FM Approved Only)

Detector	Base	Installation Instructions Part Number
DI-31S with ISI-1	DB-3S	315-081943-18

NOTE:

Positive and negative ground fault detected at <30K ohms for terminals 5-8 on CZM-1B6.

BEAM DETECTOR WIRING CLASS B

DO NOT CONNECT MORE THAN
ONE PB-1191 TO A CZM-1B6

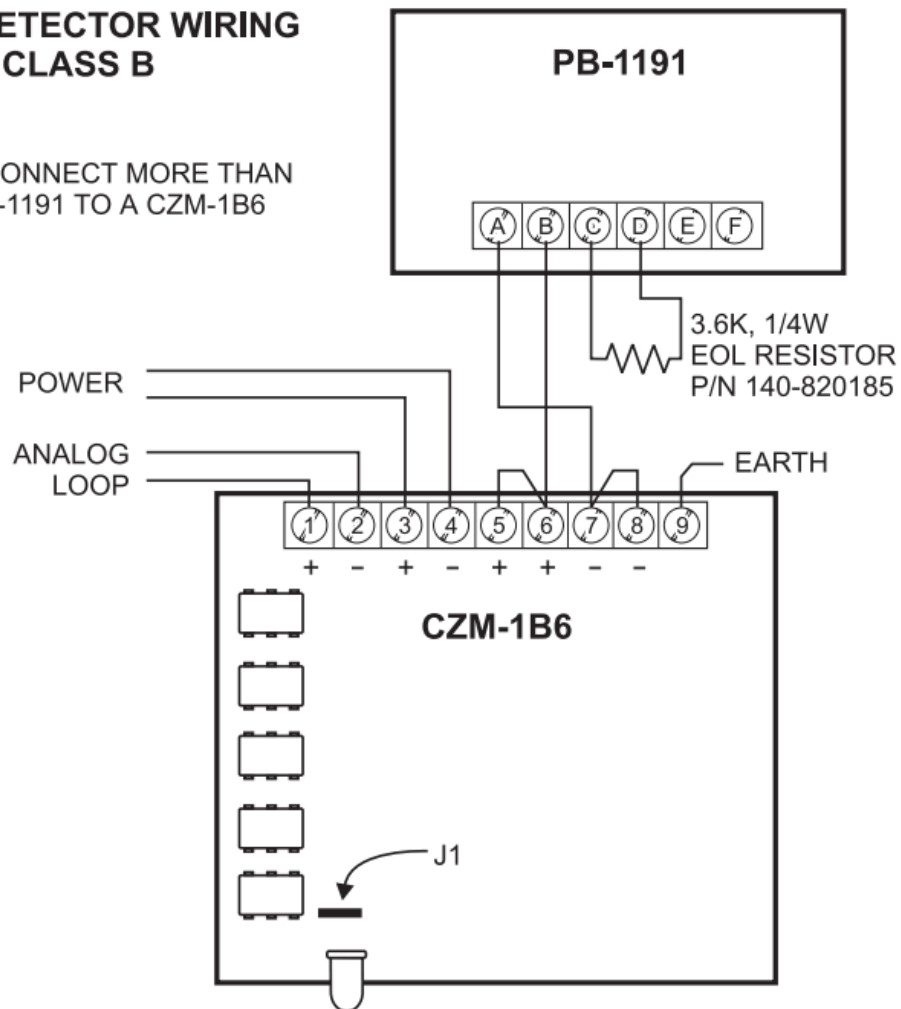


Figure 4 CZM-1B6 Wiring Diagram PB-1191 Installation

2. Analog Loops (See Figure 5)

The CZM-1B6 communicates with the MXL via its analog addressable loops. These loops may be on the MMB or on the optional ALD-2I module. The analog loops may be wired Class A or Class B. Figure 5 shows both wiring types, as well as the connections to either the MMB or the MOM-4 when the ALD-2I module is used.

3. 24 VDC Power (See Figure 6)

The CZM-1B6 receives its power from the CZM-1B6 power output on the MMB. This power is available on TB5 of the MMB at terminals 9–12 or TB3 on the PSR-1 on terminals 3–6. The power may be wired as Class A or Class B. Since the CZM-1B6 monitors the power at its screw terminals, you can star or T-tap the power connection in the Class B configuration only. Refer to Figure 6 for the wiring diagram.

ALD-21

MOM-4 TB2		MOM-4 TB1		MMB TB2	MMB TB3
LOOP 1	LOOP 2	LOOP 1	LOOP 2	LOOP 1	LOOP 2
4	8	4	8	4	4
3	7	3	7	3	3
2	6	2	6	2	2
1	5	1	5	1	1

CLASS A INSTALLATION*

NO T-TAPPING ALLOWED

*OPERATES IN FULL CONFORMANCE WITH STYLE 6

CLASS B INSTALLATION**

T-TAPPING ALLOWED

**OPERATES IN FULL CONFORMANCE WITH STYLE 4

***JUMPERS CAN BE REMOVED FROM MMB-3 WITH CSGM CONFIGURATION

LOOP RESISTANCE 100 Ohms MAX.
 ALL WIRE MINIMUM 18 AWG
 NO EOL DEVICE REQUIRED
 SUPERVISED, POWER LIMITED PER NEC 760

Electrical Ratings

Active 5VDC Module Current	Omar
Active 24VDC Module Current	50mA
Standby 24VDC Module Current	12.5mA

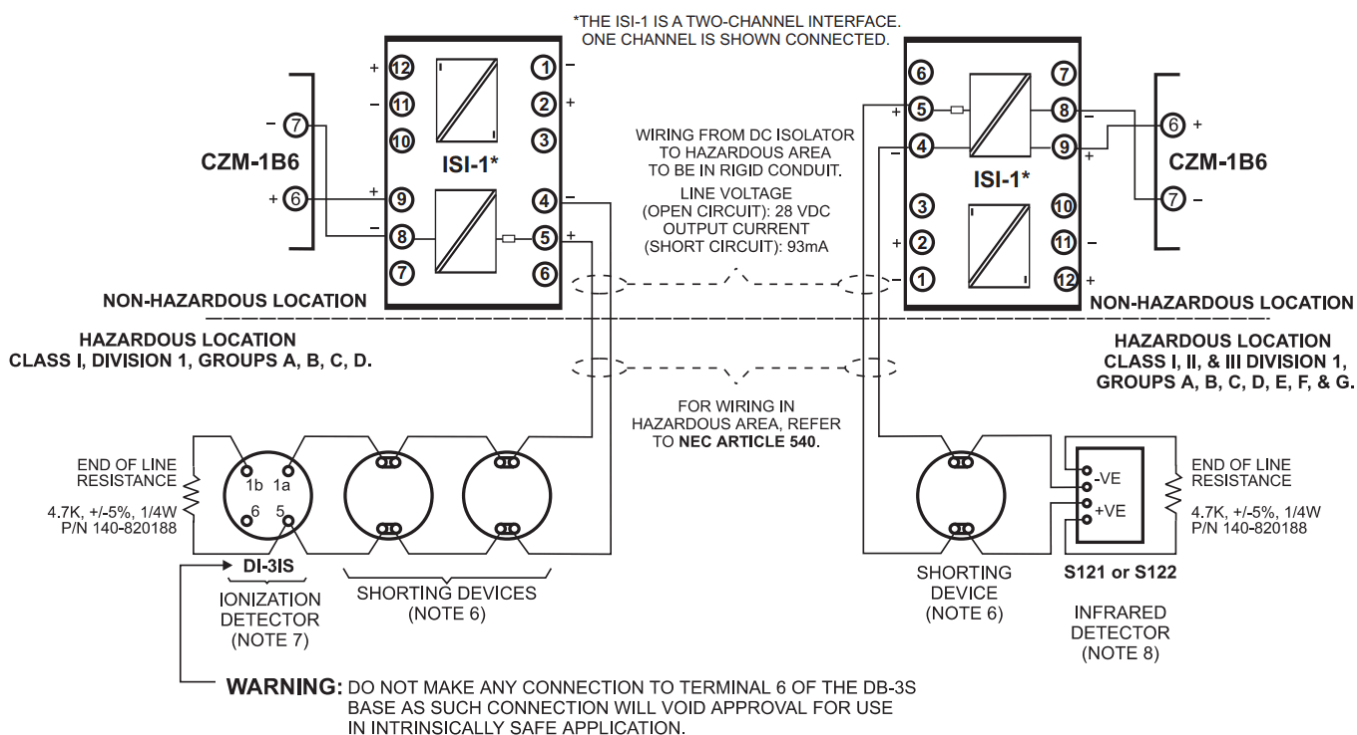
Zone resistance: 35 ohms total

INTRINSICALLY SAFE APPLICATION FM APPROVED ONLY

151-1 AREAS

CHANNEL	SAFE	HAZARDOUS
1+	9	5
1-	8	4
2+	12	2
2-	11	1

NO CONNECTION: 3, 6, 7, 10



NOTES:

1. Intrinsically Safe Output: Open Circuit Voltage: 28 VDC Short Circuit Current: 93mA
2. Maximum loop resistance must not exceed 35 ohms.
3. A maximum of ten DI-3IS Ionization Detectors or up to five S121 or S122 Flame Detectors can be used in


addition to mechanical (non-energy storing) shorting devices.

4. Maximum safe system voltage is 250 VAC.
5. For mounting and installation of the ISI-1, see the ISI-1 instructions.
6. Only mechanical (non-energy storing) shorting devices such as the MS-51 Manual Station may be used.
7. **WARNING:** Do not make any connection to terminal 6 of the DB-3S base. Such a connection would void use in an intrinsically safe application.
8. In addition, S121 and S122 are also approved for use in Class II and Class III, Groups E, F, and G.
9. For guidance on installation see ANSI/ISA RP 12.6, "Installation of Intrinsically Safe Instrument Systems in Class I Hazardous Locations".
10. For DI-3IS information, see the DI-3 Series installation instructions, P/N 315-081943.
11. For S121 and S122 information, see the installation instructions, P/N 315-085258.

Figure 7 Wiring Diagram of Intrinsically Safe Zone

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Florham Park, NJ
P/N 315-095355-9
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Fire Safety & Security Products
2 Kenview Boulevard
Brampton, Ontario
L6T 5E4 Canada
firealarmresources.com

Documents / Resources

	<p>SIEMENS CZM-1B6 Remote Conventional Zone Module [pdf] Instruction Manual CZM-1B6 Remote Conventional Zone Module, CZM-1B6, CZM-1B6 Conventional Zone Module , Remote Conventional Zone Module, Conventional Zone Module, Zone Module, Module, CZM-1B6 Module</p>
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References

-  [Fire Alarm Resources | Download fire alarm documents](#)