DCP-CZM CONVENTIONAL ZONE MODULE

DESCRIPTION

The Hochiki Conventional Zone Module (DCP-CZM) is designed for use on an analog addressable Fire Alarm system. Up to 127 devices can be placed on a single SLC loop. The device address is uniquely stored on an onboard EEPROM. The module allows the panel to interface and monitor two-wire conventional detectors or pull stations. Each DCP-CZM transmits the status on one zone of devices (25 maximum per zone) back to the panel. It supervises the power supply as well as the entire zone of devices. Status conditions are reported as normal, open or alarm. All 2-wire smoke detectors must be UL listed as compatible to be interfaced with the DCP-CZM. The interrupt driven Digital Communication Protocol (DCP) combines maximum communication reliability and fast response to emergency conditions. The module has a single bicolored LED to indicate device status. It fits into a standard 4" square or double gang electrical back box.

STANDARD FEATURES

- UL 864 9th Edition Listed

- Provides an address point for a zone of up to 25 conventional smoke detectors

- Blinks green when polled. Latched on red (controlled by panel) when activated

- Device address can be programmed with a handheld programmer. Device address- ranges from 1 to 127

- Compatible with Class B and Class A wiring

- Auxiliary power source provides power for the zone of detectors

- Compatible with conventional detectors, SOC-24V, SOC-24VN, SLR, SIJ, SLK, SLV, DCD, DFE and SIH series

- Compatible with TH series linear heat cables from

SPECIFICATIONS

Supply Voltage (S-SC)	25.3 ~ 39 VDC
Auxiliary Supply Voltage	18.8 ~ 27.2 VDC
Average Current Consumption	670µA
2-Wire Detector Loop Current	1mA Max.
From Auxiliary Supply	60mA Max.
EOL Device	4.7 ohms Resistor
Max. Quantity Per Loop	127
Alarm Threshold Level	<1.5K ohms
Wiring Threshold Level	>2.5K ohms & <6K ohms
Open Circuit Threshold Level	>10K ohms
Max. 2-Wire Conventional	50 ohms (total wire length)
Dimensions	4.2"W x 4.7"H x 1.4"D
Operating Temperature	32°F (0°C) ~ 120°F (49°C)
Mounting	4" square electrical box
Relative Humidity	90% RH Non-Condensing

PRODUCT LISTINGS

SIGNALING
UL LISTED
S5694

FM APPROVED
3033215

LISTING STATE OF CALIFORNIA FIRE FIRE MARSHAL SERVICE

California State Fire Marshal
7300-0410:150

ISO 9001:2008 REGISTERED

Assembled in the USA
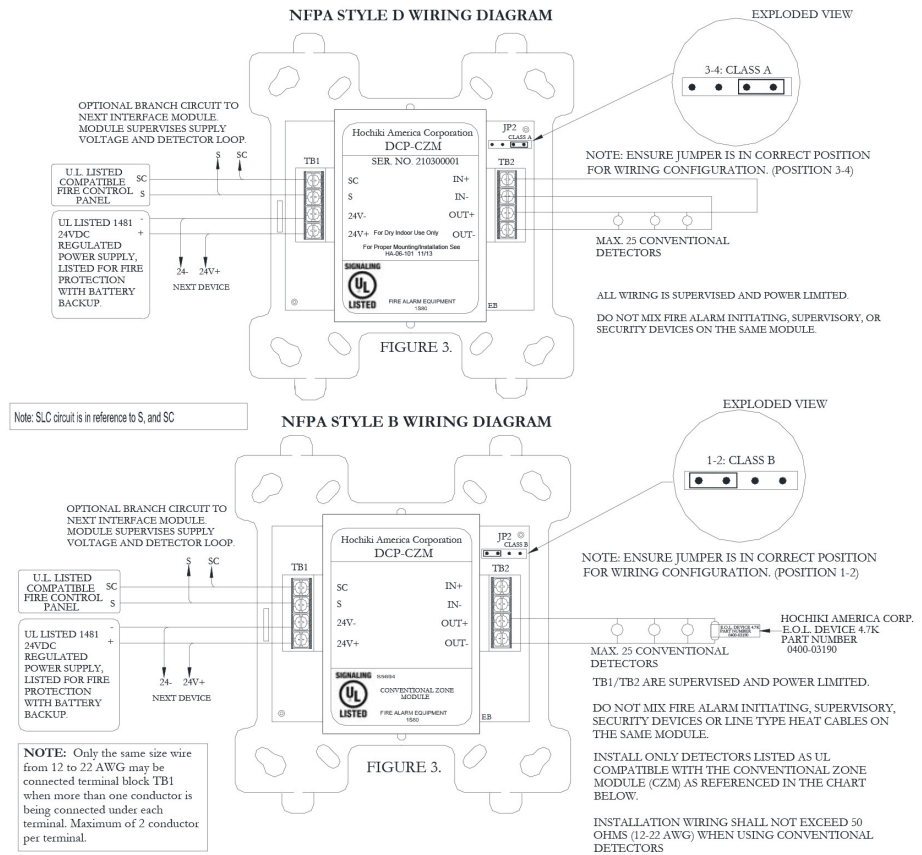
Find latest revision at **www.hochiki.com**

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DCP-CZM CONVENTIONAL ZONE MODULE

ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, Conventional Zone Module (DCP-CZM). The modules shall be UL Listed and compatible with the Hochiki America Control Panel Protocol. The device address shall be electrically programmed and stored in EEPROM. A bi-colored LED shall indicate device status. The DCP-CZM shall be supplied with a plastic cover and shall be suitable for mounting to a 4" square or double gang electrical back box. The DCP-CZM shall provide a monitor LED that is visible from outside the cover plate.

NFPA STYLE D WIRING DIAGRAM

EXPLODED VIEW

3-4: CLASS A

OPTIONAL BRANCH CIRCUIT TO NEXT INTERFACE MODULE. MODULE SUPERVISES SUPPLY VOLTAGE AND DETECTOR LOOP.

U.L LISTED COMPATIBLE FIRE CONTROL PANEL

UL LISTED 1481 24VDC REGULATED POWER SUPPLY, LISTED FOR FIRE PROTECTION WITH BATTERY BACKUP.

Hochiki America Corporation DCP-CZM SER. NO. 210300001

For Dry Indoor Use Only
For Proper Mounting/Installation See HA-06-101 11/13

SIGNALING
UL LISTED
FIRE ALARM EQUIPMENT 1586

NOTE: ENSURE JUMPER IS IN CORRECT POSITION FOR WIRING CONFIGURATION. (POSITION 3-4)

MAX. 25 CONVENTIONAL DETECTORS

ALL WIRING IS SUPERVISED AND POWER LIMITED.

DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, OR SECURITY DEVICES ON THE SAME MODULE.

FIGURE 3.

Note: SLC circuit is in reference to S, and SC

NFPA STYLE B WIRING DIAGRAM

EXPLODED VIEW

1-2: CLASS B

OPTIONAL BRANCH CIRCUIT TO NEXT INTERFACE MODULE. MODULE SUPERVISES SUPPLY VOLTAGE AND DETECTOR LOOP.

U.L LISTED COMPATIBLE FIRE CONTROL PANEL

UL LISTED 1481 24VDC REGULATED POWER SUPPLY, LISTED FOR FIRE PROTECTION WITH BATTERY BACKUP.

Hochiki America Corporation DCP-CZM

SIGNALING
UL LISTED
CONVENTIONAL ZONE MODULE
FIRE ALARM EQUIPMENT 1580

NOTE: ENSURE JUMPER IS IN CORRECT POSITION FOR WIRING CONFIGURATION. (POSITION 1-2)

MAX. 25 CONVENTIONAL DETECTORS

HOCHIKI AMERICA CORP. E.O.L. DEVICE 4.7K PART NUMBER 0400-03190

TB1/TB2 ARE SUPERVISED AND POWER LIMITED.

DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, SECURITY DEVICES OR LINE TYPE HEAT CABLES ON THE SAME MODULE.

INSTALL ONLY DETECTORS LISTED AS UL COMPATIBLE WITH THE CONVENTIONAL ZONE MODULE (CZM) AS REFERENCED IN THE CHART BELOW.

INSTALLATION WIRING SHALL NOT EXCEED 50 OHMS (12-22 AWG) WHEN USING CONVENTIONAL DETECTORS

NOTE: Only the same size wire from 12 to 22 AWG may be connected terminal block TB1 when more than one conductor is being connected under each terminal. Maximum of 2 conductor per terminal.

FIGURE 3.

Compatible Two Wire Detectors for use with the CZM with zone identifier A:

Detector Model	Detector Identifier	Detector Type	Base Model	Base Identifier	Max Detectors
SOC-24V, SOC-24VN	HD-3	Photoelectric	NS4 and NS6 series -100, -220, -221, -224, HSC-220R, HSC-224R	HB-3, HB-4, HB-5, HB-55, HB-72, HB-73	25
SLK24F	HD-3	Photoelectric	HSB-224	HB-53	25
SLK24F	HD-3	Photoelectric	HSB-220	HB-56	25
SIH-24F	HD-3	Ionization	HSB-224	HB-53	25
SIH-24F	HD-3	Ionization	HSB-220	HB-56	25
SLR-24H	HD-3	Photoelectric w/heat	NS4-224 , NS6-224	HB-5	25
SLR-24H	HD-3	Photoelectric w/heat	NS4-220, NS6-220	HB-3	25
SLR-24V	HD-3	Photoelectric	NS4-224, NS6-224	HB-5	25
SLR-24V	HD-3	Photoelectric	NS4-220, NS6-220	HB-3	25
SLR-835 /-835W	HD-3	Photoelectric (8-35V)	NS4-224, NS6-224, NS4-224W, NS6-224W	HB-5	18
SLR-835 /-835W	HD-3	Photoelectric (8-35V)	NS4-220, NS6-220, NS4-220W, NS6-220W	HB-5	18
SLR-835H /-835HW	HD-5	Photoelectric (8-35V) w/thermal	NS4-224, NS6-224, NS4-224W, NS6-224W	HB-5	18
SLR-835H /-835HW	HD-5	Photoelectric (8-35V) w/thermal	NS4-220, NS6-220, NS4-220W, NS6-220W	HB-3	18
SLR-835B-2 /-2W	HD-6	Photoelectric (8-35V) (baseless)	N/A	N/A	18
SLR-835BH-2 /-2W	HD-6	Photoelectric (8-35V) w/thermal (baseless)	N/A	N/A	18
DCD-135/ -190	HD-3	Heat Fixed Temp / Rate of Rise	NS4-224, NS6-224	HB-5	25
DCD-135/ -190	HD-3	Heat Fixed Temp / Rate of Rise	NS4-220, NS6-220	HB-3	25
DFE-135/ -190	N/A	Heat Fixed Temp	HSC-224L	HB-62	25
DFE-135/ -190	N/A	Heat Fixed Temp	HSC-220L	HB-64	25
SLV-24/ -24N/ -24V	HD-3	Photoelectric	NS4-224, NS6-224, NS4-224W, NS6-224W	HB-5	25
SLV-24/ -24N/ -24V	HD-3	Photoelectric	NS4-220, NS6-220, NS4-220W, NS6-220W	HB-3	25

Compatible Linear Heat Detection Cable for use with the CZM:

Manufacturer	Model	Description	Maximum Length
Proline Protection Systems	TH 68	Fixed Temp. line type heat detector cable 115°F (68° C)	8,000ft. (2,438m)
Proline Protection Systems	TH 88	Fixed Temp. line type heat detector cable 190°F (88° C)	8,000ft. (2,438m)
Proline Protection Systems	TH 105	Fixed Temp. line type heat detector cable 221°F (105° C)	8,000ft. (2,438m)