SIEMENS

Data Sheet
Fire Safety Products

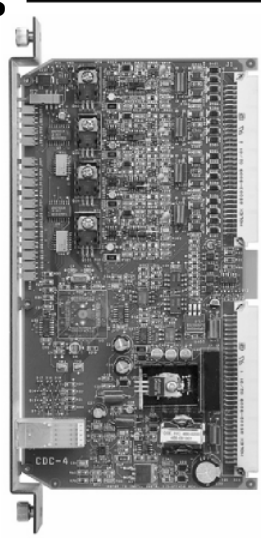
FireFinder® XLS

Conventional Detector Card
Model CDC-4

ARCHITECT AND ENGINEER SPECIFICATIONS

- Supports up to 30 Siemens conventional smoke detectors per zone
- Four (4) 'Class A' or 'Class B' zones
- Supports various detectors manufactured by others
- Supports unlimited shorting devices per zone
- Supports one (1) beam detector per zone
- Mounts in single slot of card cage
- Optional alarm verification by circuit
- Ground-fault detection
- Plain decimal-address setting
- Custom message by zone available
- Built-in, diagnostic light-emitting diodes (LEDs)
- ℗UL 864 9th Edition Listed & ℗ULC listed; FM, CSFM and NYC Fire Department Approved

CDC-4
(Front View)



CDC-4
(Side View)

Product Overview

The Conventional Detector Card (Model CDC-4) is used to monitor Fire Safety conventional detectors on the FireFinder XLS system. Model CDC-4 can be used in applications where conventional detectors are more suited than addressable detectors, such as hallways or large meeting rooms.

Model CDC-4 can also be used to upgrade Siemens conventional fire-alarm panels to the FireFinder XLS system without requiring detector replacement.

Specifications

Each of the four (4) conventional zones can be wired 'Class A' (Style D) or 'Class B' (Style B). Up to 30 conventional photo, photo-thermal, or ion detectors can be wired to a single zone. A zone can optionally support a single beam detector. Each zone can also have an unlimited number of normally open contact devices, such as: manual pull stations and thermal detectors.

Smoke detectors can use an audible base, a relay base, or a remote LED. The appliance will activate when that detector goes into *Alarm* mode. Each zone can operate the appliances associated with the first smoke detector in *Alarm* mode.

Additionally, each zone can also be configured to operate with the *Alarm Verification* feature. This feature helps reduce nuisance alarms by automatically verifying an *Alarm* event received on the zone caused by smoke detectors. The zones can also each be configured for degrade operation, allowing partial-system functions when the system loses communication with the main-system control unit.

The operational characteristics and the custom message for each zone are programmed using the *ZEUS* programming tool, and is stored within the system. Addressing Model CDC-4 is performed using the integral (3) three-position, decimal address switches located on the front of the card.

Diagnostic LEDs on Model CDC-4 give indication of power, communication, ground-fault-by-card, alarm-by-circuit, and trouble-by-circuit. These LEDs aid in troubleshooting problems found on a system. A local reset switch for Model CDC-4 card is also provided.

Model CDC mounts in a single slot of a Model CC-5 or Model CC-2 cardcage. Field wiring for Model CDC-4 is connected to the upper terminals on the cardcage, while 24VDC is wired to the lower terminals for powering the zones.

Electrical Ratings

Initiating Circuits		
Voltage Range (standby)	21.7 – 22.8VDC	
***Supervisory* Current**	4mA per zone, max.	
***Alarm* Current**	175mA per zone, max.	100mA per zone, max.

Power Supply		
24V Back Plane Current	0	
24V Current (Screw Terminal)	**Supervisory** 150mA + 8mA per zone, max.	**Supervisory** 110mA per zone, max.
	Alarm 110mA + 320mA per zone, max.	**Alarm** 110mA + 280mA per zone, max.
6.2V Back Plane Current	150mA, max.	
24V Current (Standby)	**Supervisory** 150mA + 8mA per zone, max.	**Supervisory** 150mA + 8mA per zone, max.
	Alarm 150mA + 320mA per zone, max.	**Alarm** 150mA + 280mA per zone, max.

Compatible s – Fire Safety Detectors

(Maximum 30 per zone, unless indicated):

- DF-1192 {four [4] per zone}
- DI-3 /3H
- DI-A3 /A3H
- DI-B3 /B3H
- DT-11
- DT-135R /135F {unlimited}
- DT-135CL /135CS /135WP {unlimited}
- DT-200R /200F {unlimited}
- DT-200CL /200CS /200WP {unlimited}
- DT-3P-135 {unlimited}
- DT-140EP / 160EP / 190EP / 210EP / 225EP / 275EP / 325EP / 365EP / 450EP {unlimited}
- PBA-1191 {one [1] per zone}
- PE-3 /3T {15 per zone}
- PE-11 /11T
- S-121 /122 {15 per zone}

Compatible non-s – Fire Safety Detectors

Also supports the following non-Siemens detector brands*:

- Air Products and Controls
- Apollo
- Electro Signal
- Edwards
- Hochiki
- BRK

**Refer to installation sheet or technical website for models and quantities supported. Contact manufacturer for listing information on non-s models.*

Temperature and Humidity Range

Products are ®UL 864 9th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Details for Ordering

Model	Part Number	Description
CDC-4	500-034200	Conventional Detector Card

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.

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