SIEMENS

Desigo® Fire Safety Modular System

Network Ring Card

Model XINC

Architect & Engineer Specifications

- ☐ Network ring card for Desigo Fire Safety Modular system
- ☐ Provides single / multi-mode fiber-optic or copper connections
- ☐ Provides 'Class B' or 'Class X' XNET communication in a ring topology
- ☐ Isolates short-circuit faults
- ☐ Ground-fault detection
- ☐ Downloadable firmware
- ☐ RoHS Compliant
- ☐ UL864 & CAN / ULC-S576 Listed

Product Overview

The XINC-Network Ring Card – the Model XINC from Siemens Fire Safety is a networking card that transmits communication data via copper lines, ethernet or through single-mode or multi-mode fiber-optic cable media cards.

Model XINC can be wired in a 'Class B' topology or can use a 'Class X' ring configuration to work with Desigo Fire Safety Modular system fire alarm control panels (FACPs).

The XINC supervises each network for proper operation and reports detected faults to the FCM2041-U2 Desigo Fire Safety Modular Operator Interface for annunciation. In addition, the XINC has diagnostic LEDs that indicate which faults have been detected.

Specifications

One (1) Model XINC (per system node) provides HNET/XNET and CAN network communications within and between enclosures, allowing a maximum 64 Desigo Modular FACPs to be networked together.

Model XINC must reside in the same enclosure as the Operator Interface (OI). Model XINC supervises the XNET-ring network to insure proper operation. Model XINC also isolates a short-circuit fault to each individual segment of the XNET network.

The Network Ring Card performs ground-fault detection on its outgoing ring port. Any detected faults are reported to the OI for annunciation. Model XINC also isolates faults to an individual node, allowing communication on the network ring to continue.

The front bezel for the Model XINC contains one (1) reset switch, five (5) LEDs, three (3) rotary address switches, four (4) RJ-45 ports.

Model XINC
Network Ring Card

UL ULC RoHS COMPLIANT

Specifications (cont.)

There is a singular Power LED and diagnostic LEDs for indication of `Card Fail', `Trouble', 'Network Fault', and 'Ground Fault'. Ethernet port 1 is designated for the connection to the PMI, Ethernet port 2 is for connection for diagnostic tools. Ethernet ports 3 and 4 can be used to connect to an XVCC or an additional XINC card.

Model XINC takes one (1) card slot, and mounts in a Model CC-2 or CC-5 card cage inside a Model CAB-1 | Model CAB-2, or Model CAB-3 enclosure.

The Model XINC with the LDC Media Adaptor supports copper connections 18AWG min. to 14 AWG max shielded or unshielded twisted pair with a minimum of three (3) twists per foot, 12 AWG THHN single conductor, twisted 14 AWG THHN and CAT 5 single pair. Dependent upon the wire type that is used, a maximum distance of 5,000 feet per pair is supported between each card.

The Model XINC with the model FN2016-U1 Ethernet Media Adaptor supports standard CAT 3/5/5e shielded or unshielded cable, to 100 meters max.

The Model XINC also supports Fiber Optic Cable with the, the model FN2017-U1 (Multi Mode Fiber Optic), the model FN2018-U1 (Single Mode Fiber Optic) adaptors.

XINC with Ethernet and Fiber Media Adaptors

FN2016

FN2017

FN2018

LDC

Temperature and Humidity Range

The XINC Network Ring Card is UL 864 10th 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).

Electrical Ratings

XINC Ring Card	
Input Power	
24V Back Plane Current	500mA
Screw Terminal (24V Current Draw)	0
6.2V Back Plane Current	0
24V Standby Current	500mA

Note: This table does not include current draw of Media Adaptors.

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
XINC	S54430-A16-A1	Network Ring Card
FN2016-U1	S54400-A77-A1	Ethernet Media Adapter Module
FN2017-U1	S54400-A78-A1	Multi-Mode Fiber-Optic Media Module
FN2018-U1	S54400-A79-A1	Single-Mode Fiber-Optic Media Module
LDC	S54430-A14-A1	Long Distance Copper Module

SIEMENS

Desigo® Fire Safety

Siemens Industry, Inc.
Smart Infrastructure - Building Products
2 Gatehall Drive • Parsippany, NJ 07054
Tel: (973) 593-2600

September - 2024
(New Issue)