

Desigo[®] Fire Safety Modular System

Notification Appliance Loop Card

Model XNLC

Architect & Engineer Specifications

- ❑ Compatible with the Siemens Acend line of Intelligent Notification Appliances
- ❑ Supports up to 252 addressable appliances
- ❑ Operates and maintains all devices residing on up to four (4) 'Class A/X', or eight (8) 'Class B' stubs
- ❑ Supports Acend appliance Self-Testing capability with Disturbance-Free Testing (DFT technology) that meet NFPA 72 Periodic testing requirements
- ❑ Quantity 16 diagnostic light-emitting diodes (LEDs) for easy circuit diagnosis
- ❑ Device Programmer / Tester (Model DPU) programs and verifies device's address:
 - programming capabilities include testing the device for operation
- ❑ Supports 'Class B' | 'Class A' | 'Class X' wiring
- ❑ Supports T-Tapping only with 'Class B' wiring
- ❑ Supports synchronization between cards in a single FACU and up to 30 transponders
- ❑ Supports degrade mode operation
- ❑ UL864 | CAN / ULC Listed

Product Overview

The Siemens – Fire Safety 'Class X' Notification Appliance Loop Card (Model XNLC) is the interface used for connecting Siemens Acend line of intelligent, addressable, notification appliances.

Each Model XNLC plugs into one (1) slot of the Model CC-2 or Model CC-5 card cage. Programming for Model XNLC is accomplished via the Desigo Fire Safety Modular system custom-configuration tool, *Zeus-D*. Model XNLC takes one (1) address on the network, communicating up to a total of 252 detectors and devices.

Model XNLC has 16 LEDs for diagnostic purposes and provides ground-fault detection on the loop.

Specifications

The 'Class X' Notification Device Loop Card (Model XNLC) initializes, operates and maintains all devices residing on the loop. The Model XNLC has two (2) 1.5A Line Driver circuits for a total card capacity of 3A. Each Line Driver circuit will provide power to two (2) Class A/X loops or four (4) Class B stubs, supporting a maximum of 126 Intelligent notification appliances per line driver, with a total of 252 appliances supported per card.

A Desigo Fire Safety Modular (Desigo Modular) fire-alarm control panel (FACP) communicates to the Model XNLC and tells which notification appliances on its lines should indicate an 'alarm' condition when there is an alarm condition. The Line Drivers' power, communicate with monitor and control all notification appliances on the loop/stubs.

Each Model XNLC supports four addressable 'Class A' (DCLA), or 'Class X' (DCLC) loops or eight (8) 'Class B' (DCLB) parallel lines/stubs of up to 252 Acend Intelligent notification appliances (i.e. Horns, Horn-Strobes, Strobes, Speakers, Speaker-Strobes, Low Frequency Sounders (LFS) or Low Frequency Sounder-Strobes (LFSS), etc. in any combination.

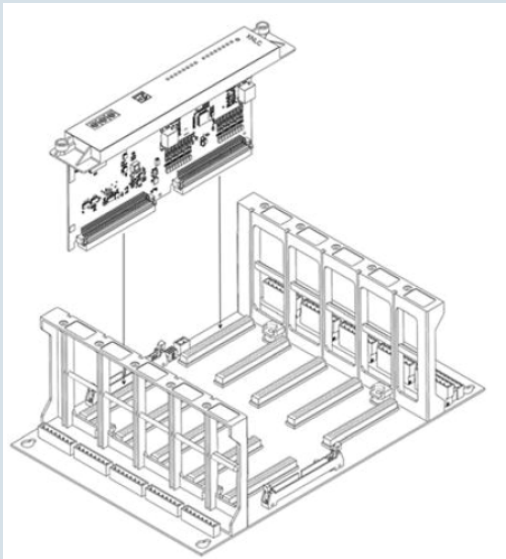
The Acend notification appliances have built-in isolators that will isolate any notification appliance from the short if the line is shorted (on a 'Class X' loop only).

NOTE: Refer to installation manual: P/N – **A6V14373881** to ensure Model XNLC compatibility with the Siemens Modular FACU's intended for use in the given application.



Model XNLC





Model XNLC
Diagram of an `Class X' Intelligent Notification Loop Card mounted to a Siemens Card Cage

Temperature and Humidity Range

'Class X' Intelligent Notification Loop Cards are UL Listed | ULC 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).

Technical Data

24V CURRENT DRAW: [Back Plane]	0
24V CURRENT DRAW: [Screw Terminal]	121mA + max appliance current per device
6.2V CURRENT DRAW: [Back Plane]	1mA
24V CURRENT DRAW: [Standby]	122mA + max appliance current per device
DEVICE LOOP: [@ 32 VDC Max.]	3mA, per XNLC card (1.5 A max per Line Driver circuit; power limited)

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
XNLC	S54430-B16-A1	'Class X' Notification Appliance Line Card

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information. Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer. Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

SIEMENS

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