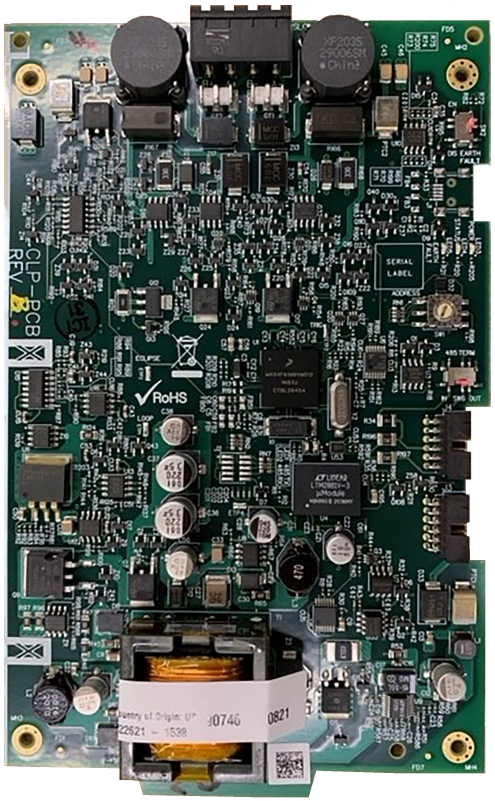
SLM-318 Signaling Loop Module

General

The SLM-318 Loop Module provides the NOTIFIER INSPIRE™ N16 Series of Fire Alarm Control Panels (FACPs) with additional Signaling Line Circuits (SLCs). The N16 Series supports up to 9 additional SLM-318 cards for a total of 10 loops cards, with up to 318 devices per loop. The PMB power supply for the N16 FACP supports a maximum of five loop cards. One or two PMB-AUX(-RTO) power supplies can be added depending on total number of loop cards, battery charging and alarm load requirements.

The SLM-318 comes factory programmed in FlashScan protocol with the capabilities of NOTIFIER's Self-Test Detectors enabled. Individual cards within a N16 can be field configured via license for CLIP protocol.



Features

- Support Self-Test Series intelligent devices
- Up to 12,500 feet (3,810 m) on a Class B SLC loop (twisted-unshielded)
- Built-in degraded mode increases survivability
- Simplified installation via plug in style design
- Permits multiple loops in a small enclosure
- FACPs can support cards operating in FlashScan and CLIP simultaneously

Product Line Information

SLM-318: Signaling Loop Module. Adds SLC loops to the N16 Series FACP; N16 supports up to ten SLM-318 cards

Agency Listings and Approvals

The file number(s) below reference the specific listings for the modules in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult NOTIFIER for latest listing status.

- **UL:** S635
- **FM Approved**
- **CSFM:** 7165-0028:0516
- **FDNY**: COA#001761

Standards and Codes

These listings and approvals below apply to the SLM-318. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL 864, 10th edition
- NFPA 72 National Fire Protection Association

Voltage: 24VDC nominal, 27.6VDC maximum

Maximum loop length: The maximum wiring distance of an SLC using 12 AWG (3.1 mm²) twisted-pair wire is 12,500 feet (3810 m) per channel. For a twisted-unshielded pair, 12 AWG (3.1 mm²) to 18 AWG (0.78 mm²):

- Distance with 12 AWG: 12,500 ft (3,810 m)
- Distance with 14 AWG: 9,500 ft (2,896 m)
- Distance with 16 AWG: 6,000 ft (1,829 m)
- Distance with 18 AWG: 3,700 ft (1,128 m)
- 50 ohms maximum per length of Class A & Class X loops
- 50 ohms maximum per branch for Class B loop

Maximum loop length with self-test detectors: The maximum wiring distance of an SLC using 12 AWG (3.1 mm²) twisted-pair wire is 11,000 feet (3400 m) per channel. For a twisted-unshielded pair, 12 AWG (3.1 mm²) to 18 AWG (0.78 mm²):

- Distance with 12 AWG: 11,000 ft (3,400 m)
- Distance with 14 AWG: 6,900 ft (2,100 m)
- Distance with 16 AWG: 4,350 ft (1,326 m)
- Distance with 18 AWG: 2,700 ft (823 m)
- 35 ohms maximum per length of Class A & Class X loops
- 35 ohms maximum per branch for Class B loop

Alarm current: 210mA, **Standby current:** 159mA, **resistance:** 50 ohms maximum, **for single SLC loop:** 400mA maximum.

NOTE: *Maximum short circuit — loop will shut down until short-circuit condition is corrected.*

Maximum resistance: 50 ohms (supervised and power-limited)

Temperature and humidity ranges: This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

ISO 9001 CERTIFIED
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This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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