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/ULC Listed:** S635
- **FM Approved:** FM23FPUS0095
- **CSFM:** 7165-0028:0516
- **FDNY:** COA#001761
- **Certified for Seismic applications in accordance with IBC 2024:** VMA-45894-01C
- **OSHPD Approved:** OSP-0072

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 (Control Units and Accessories for Fire Alarm Systems)
- **UL 2017** (General-Purpose Signaling Devices and Systems)
- **UL 2610** (Commercial Premises Security Alarm Units and Systems)
- **ULC-S527-19** (Control Units and Accessories for Fire Alarm Systems)
- Should be installed as per NFPA 72 National Fire Protection Association

Voltage: 24VDC nominal, 27.6VDC maximum

Recommended wiring: Twisted unshielded pair 12–18 AWG (3.31mm²–0.082mm²)

	Standard detectors with CLP-PCB/CLP-2PCB	Self-Test detectors and CLP-2PCB	Self-Test detectors and CLP-PCB
Distance with 12 AWG	12,500 ft. (3,810 m)	11000 ft (3353 m)	7200 ft (2195 m)
Distance with 14 AWG	9,500 ft. (2,895.6 m)	6900 ft (2103 m)	4500 ft (1372 m)
Distance with 16 AWG	6,000 ft. (1,828.8 m)	4350 ft (1326 m)	2800 ft (853 m)
Distance with 18 AWG	3,700 ft. (1,127.76 m)	2700 ft (823 m)	1800 ft (549 m)
Maximum ohms per Loop for Class A and X loops	50	23	35
Maximum ohms per branch for Class B loop	50	23	35

NOTE: *To identify board version CLP-XXX is silk screened on SLM-318 PC board.*

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.

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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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NOTIFIER
12 Clintonville Road
Northford, CT 06472
203.484.7161
www.notifier.com

Country of Origin: USA

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