

Supplement to the
Notifier SLC Wiring Manual
Document 51253 Rev U9



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SLC Wiring Manual Updates

Use this text to update the Notifier SLC Wiring Manual 51253.

Section 1: Introduction

N16 support is added for VESDA-E SLC devices at firmware v6.x. New VESDA-E device types are added. Protocol use is clarified. ULC terminology is clarified for Canadian Applications. Note added that N16 does not support Legacy Type V models of FDM-1.

1.2 UL 864 Compliance

Table 1.1 and its introductory paragraph are revised to address Canadian terminology. A new subhead is created to call attention to the material.

1.2.2 Wiring Class Designations

Wiring class designations changed between UL 9th and 10th edition to reflect changes in NFPA 72 descriptions. The changes are summarized here for users who are more familiar with the older descriptions. ULC terminology is included here for Canadian applications. For all future references to class designations, the designations in the 'Current Designations' column are considered identical.

Old Designations						Current Designations (NFPA, ULC)
IDC	NAC	Signaling Line Circuit (SLC), Data Communications Link (DCL)	Smoke Control	Releasing Devices	Supplementary	
Style B and C (Class B)	Style Y (Class B)	Style 4 (Class B)				Class B DCLB
Style D and E (Class A)	Style Z (Class A)	Style 6 (Class A)				Class A DCLA
		Style 7 (Class A)				Class X DCLC
			End to end verification			Class C
				Fail safe		Class D
					Non-supervised	Class E

Table 1.1 Wiring Designations - History of Changes

1.3 Related Documentation

New VESDA-E devices and listings are added to update Table 1.2 of the SLC Wiring Manual.

SLC/DCL Loop Devices	Document Number
VEP/VEU Installation Sheet (VESDA-E) for ULC and UL 268 6th edition	LS10214-000NF-E
VEP/VEU Installation Sheet (VESDA-E) for ULC and UL 268 7th edition	LS10330-001NF-E
VEA Installation Sheet (VESDA-E) for ULC and UL 268 6th edition	LS10215-000NF-E
VEA Installation Sheet (VESDA-E) for ULC and UL 268 7th edition	LS10331-001NF-E
VES Installation Sheet (VESDA-E) for ULC and UL 268 7th edition	LS10251-001NF-E
Intelligent VESDA-E SLC 2nd Generation Detectors VEP for ULC and UL 268 7th edition	
VEP-NTF-VN Installation Sheet	48844
VEP-NTF-VN Product Guide	48847
Intelligent VESDA-E SLC 2nd Generation Detectors VEU for ULC and UL 268 7th edition	
VEU-NTF-VN Installation Sheet	48845
VEU-NTF-VN Product Guide	48848
Intelligent VESDA-E SLC 2nd Generation Detectors VES for ULC and UL 268 7th edition	
VES-NTF-VN Product Guide	48916
VES-NTF-VN Installation Sheet	48918

1.5 Polling Protocols

New text clarifying N16 protocol support is added to the Overview in Section 1.5.2.

1.5.2 Protocol Use

Control panels can use more than one type of protocol, with some restrictions as discussed below.

SLM-318 loops on N16, LCM-320/LEM-320 loops on NFS2-640, NFS2-3030, NFS-3030 and NFS-640, and SLC loops on NFS-320 can run in FlashScan mode or CLIP mode. AFP-100, AFP1010, AFP-200, AFP-300/AFP-400, AM2020, and System 5000 with AIM-200 run in CLIP mode only



NOTE: NOTIFIER INSPIRE N16 panels support CLIP mode on current, dual-protocol devices only. Legacy CLIP-only devices such as FDX-551 and SDX-551 are not compatible.

1.6.2 Control Modules

Through these addressable modules, the control panel can selectively activate Notification Appliance Circuits (NAC).

- **FCM-1** Control Module; FlashScan or CLIP mode. (Earlier monitor modules named CMX-1 and CMX-2 were CLIP mode only.)
- **FCM-1-REL** Control Module for releasing applications; FlashScan mode only. CLIP mode operation will generate a trouble message at the panel. (For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.)
- **XP5-C** Acts as a NAC or a speaker/telephone circuit (Class B only) or a Form-C relay. FlashScan capable. (See the XP5 Series Manual.)
- **XP6-C** Controls six NAC or speaker/telephone circuits; FlashScan or CLIP mode.
- **FTM-1** Firephone Control Module; FlashScan-only device for use with Fire Fighters Telephone on NFS-320, NFS2-640, NFS-640, NFS-3030, and NFS2-3030. (See the *Voice Alarm System Manual*, the *DVC Manual*, or the *DAA2/DAX Manual*.)

1.6.5 Multiple Input/Output Modules

Note added that N16 does not support Legacy Type V models of FDM-1.

These addressable modules offer dual input and/or dual output in a single device.

- **FDM-1** Dual Class B Monitor Module; FlashScan or CLIP mode.
NOTE: N16 does not support Legacy Type V FDM-1. (See Appendix C for identification.)
- **FDRM-1** Dual Monitor/Dual Relay Module; functions as two Class B monitor modules and two individual relay modules. FlashScan or CLIP mode.

1.6.8 Intelligent Detectors

N16 support is added for VESDA-E SLC devices.

New VESDA-E devices and listings are added for use with NFS-320, NFS-320SYS, NFS2-640, NFS2-3030, and N16 (firmware v6.x or higher). Specific protocols available to individual VESDA-E devices are called out in device descriptions for clarity.

New note is added to clarify software protocol support.



NOTE: NOTIFIER INSPIRE N16 panels support CLIP mode on current, dual-protocol devices only. Legacy CLIP-only devices such as FDX-551 and SDX-551 are not compatible.

VESDA-E series aspiration smoke detectors provide fire protection for NFS-320, NFS-320SYS, NFS2-640, NFS2-3030, and N16 (firmware v6.x or higher). Address using VSC software. See device specifications for protocol supported.

VESDA-E, UL 268 6th edition/ULC for use in FlashScan mode:

- **VEP-A00-P-NTF** Addressable VESDA-E VEP with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEP-A10-P-NTF** Addressable VESDA-E VEP with 3.5" Display, FlashScan, UL 268 6th edition/ULC
- **VEP-A00-1P-NTF** Addressable VESDA-E VEP 1 Pipe with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEU-A00-NTF** Addressable VESDA-E VEU with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEU-A10-NTF** Addressable VESDA-E VEU with 3.5" Display, FlashScan, UL 268 6th edition/ULC
- **VEA-040-A00-NTF** Addressable VESDA-E VEA-40 point with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEA-040-A10-NTF** Addressable VESDA-E VEA-40 point with 3.5" Display, FlashScan, UL 268 6th edition/ULC

VESDA-E, UL 268 7th edition/ULC:

- **VEP-A00-P-NTF-UL** Addressable VESDA-E VEP with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEP-A10-P-NTF-UL** Addressable VESDA-E VEP with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEP-A00-1P-NTF-UL** Addressable VESDA-E VEP 1 Pipe with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEU-A00-NTF-UL** Addressable VESDA-E VEU with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEU-A10-NTF-UL** Addressable VESDA-E VEU with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEA-040-A00-NTF-UL** Addressable VESDA-E VEA-40 point with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEA-040-A10-NTF-UL** Addressable VESDA-E VEA-40 point with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VES-A00-P-NTF-UL** Addressable VESDA-E VES scanning detector with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VES-A10-P-NTF-UL** Addressable VESDA-E VES scanning detector with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC

VESDA-E SLC 2nd Generation Detectors (VESDA-E, UL 268 7th edition/ULC):

- **VEP-A00-P-NTF-VN** Addressable VESDA-E VEP-VN with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEP-A10-P-NTF-VN** Addressable VESDA-E VEP-VN with 3.5" Display FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEP-A00-1P-NTF-VN** Addressable VESDA-E VEP-VN 1 Pipe with LEDs FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEU-A00-NTF-VN** Addressable VESDA-E VEU-VN with LEDs FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEU-A10-NTF-VN** Addressable VESDA-E VEU -VN with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VES-A00-P-NTF-VN** Addressable VESDA-E VES-VN scanning detector with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VES-A10-P-NTF-VN** Addressable VESDA-E VES-VN scanning detector with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC

Section 2: Wiring Requirements

DC resistance for SLM-318 is clarified:

2.2 Two-Wire SLC - Class B

2.2.1 Measuring Loop Resistance

T-tapping of the SLC wiring is permitted for two-wire Class B configurations. The total DC resistance from the control panel to each branch end cannot exceed:

- 50 ohms for SLM-318/N16, NFS-320, NFS2-640, NFS-640, LCM-320, LEM-320, LIB-200A, and LIB-400.
NOTE:
 - 35 ohms for current SLM-318 (CLP-2PCB) with self-test detectors installed;
 - 23 ohms for initial release SLM-318 (CLP-PCB) with self-test detectors installed.
- 40 ohms for AFP-100, AFP-200, AFP-300/400, LIB-200, and AIM-200.

2.3 Four-Wire SLC Class A and X

2.3.1 Measuring Loop Resistance

The total DC resistance of the SLC pair must not exceed:

- 50 ohms for SLM-318/N16, NFS-320, NFS2-640, NFS-640, LCM-320, LEM-320, LIB-200A, and LIB-400.
NOTE:
 - 35 ohms for current SLM-318 (CLP-2PCB) with self-test detectors installed;
 - 23 ohms for initial release SLM-318 (CLP-PCB) with self-test detectors installed.
- 40 ohms for AFP-100, AFP-200, AFP-300/400, LIB-200, AIM-200.

Section 7 Control Modules

N16 support is added for UL releasing applications.

7.1 Description

The FCM-1 module is an addressable module that can be used for monitoring and switching 24 VDC Notification Appliance Circuit (NAC) power for NFPA Class B and NFPA Class A circuits.

The FCM-1-REL is an addressable module used to switch an external power supply to a solenoid. The FCM-1-REL can be configured for NFPA Class B or Class A wiring. When using the FCM-1-REL for Class B applications, remove jumper J1 on the back. Refer to Figure 7.2. (For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.)

Refer to the *Device Compatibility Document* for a list of compatible UL Listed Fire Alarm Releasing Solenoids. For more information on the module specifications refer to the *Installation Instructions* provided with these devices.

For Class A power-supervision requirements, refer to Appendix A.2, "Supervising 24 VDC Power", on page 66.

7.2.1 Wiring a Solenoid with the FCM-1-REL

(For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.) Figure 7.3 shows the connections to wire the FCM-1-REL to a solenoid. For UL 864 10th edition applications requiring a manual disconnect switch on the releasing device, see Section 7.5, "Connecting a Releasing Device to the Addressable Control Module".

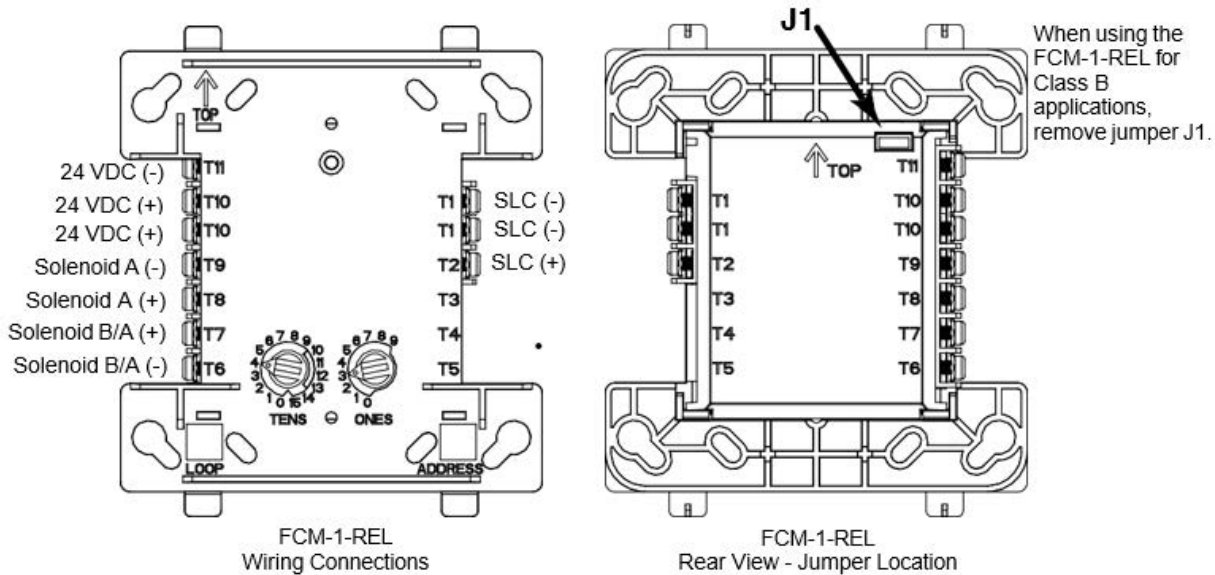


Figure 7.3 FCM-1-REL Wiring Locations and Rear View - Jumper Location

NOTE: *FlashScan mode only:* The FCM-1-REL will not function on an SLC loop that is programmed for CLIP mode.

7.5 Connecting a Releasing Device to the Addressable Control Module

For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.)

The FCM-1-REL module can control 1 A of current. Make sure to keep total system current within the limits of the power supply. Power for the module must come from the FACP's main power supply or any UL 864-listed 24 VDC regulated, power-limited power supply for Fire Protective Signaling. For more information, refer to the Device Compatibility Document. See critical notes below wiring diagrams.

Critical Requirements. When connecting a releasing device to the FCM-1-REL module, note the following:

1. See Appendix A, "Power Considerations", on page 66 for information on monitoring 24 VDC power.
2. Do not T-tap or branch a Class B or Class A circuit.
3. Only one (1) 24V solenoid or two (2) 12V solenoids in series can be connected to the FCM-1-REL.
4. Do not loop wiring under the screw terminals. Break the wire run to provide supervision of connections.
5. All applications using the FCM-1-REL are power-limited:
 - Program the releasing circuit for Type Code REL CKT ULC or RELEASE CKT.
 - Circuits are supervised against opens and shorts.
6. Refer to your FACP's listing documents for instructions on setting the Soak Timer. (* For legacy panels, refer to FACP programming manual.)
7. The FCM-1-REL module must be programmed with the correct releasing type code listed in your FACP's listing documents. (* For legacy panels, refer to FACP programming manual.)
8. Manual releasing disconnect switch and monitor module required for UL 864 10th Edition.

Figure 7.6 shows Class B wiring of the FCM-1-REL with a manual releasing disconnect switch. (For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.) See Installation Document LS10231-000GE-E for MRD-1 wiring.

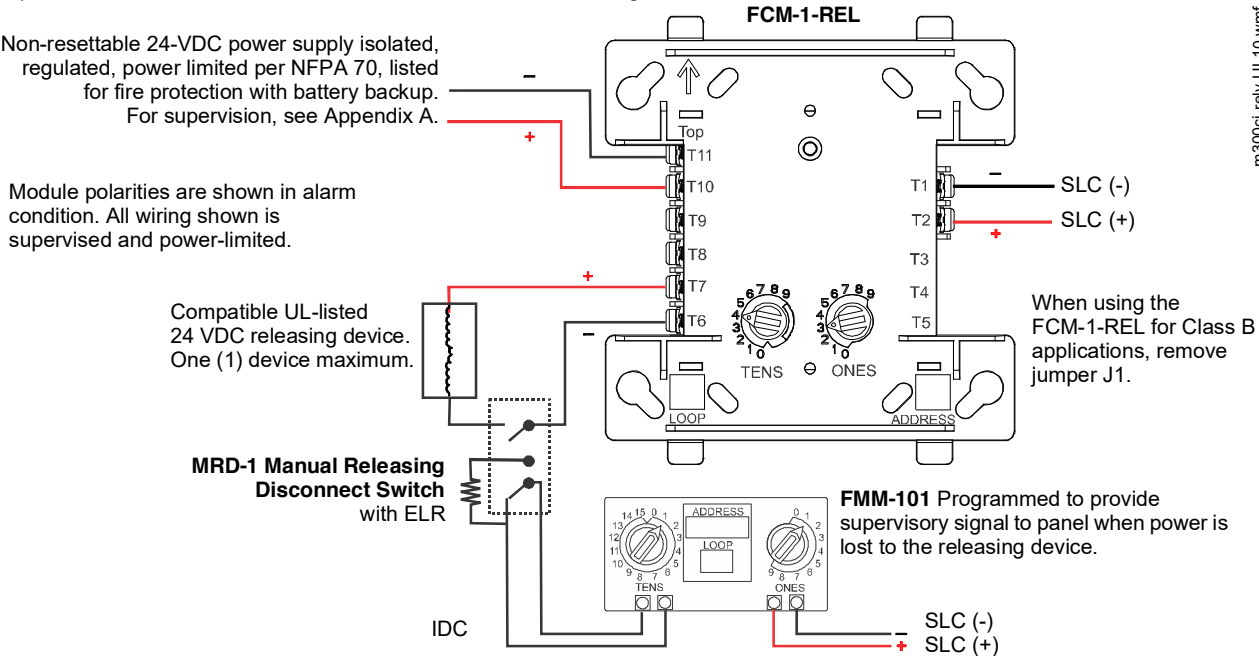


Figure 7.6 NFPA Class B Wiring of the FCM-1-REL with MRD-1 Manual Releasing Disconnect Switch and FMM-101

Figure 7.7 shows Class A wiring of the FCM-1-REL with a double-pole/single-throw manual releasing disconnect switch. ((For use with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.) See Installation Document LS10231-000GE-E for MRD-1 wiring.

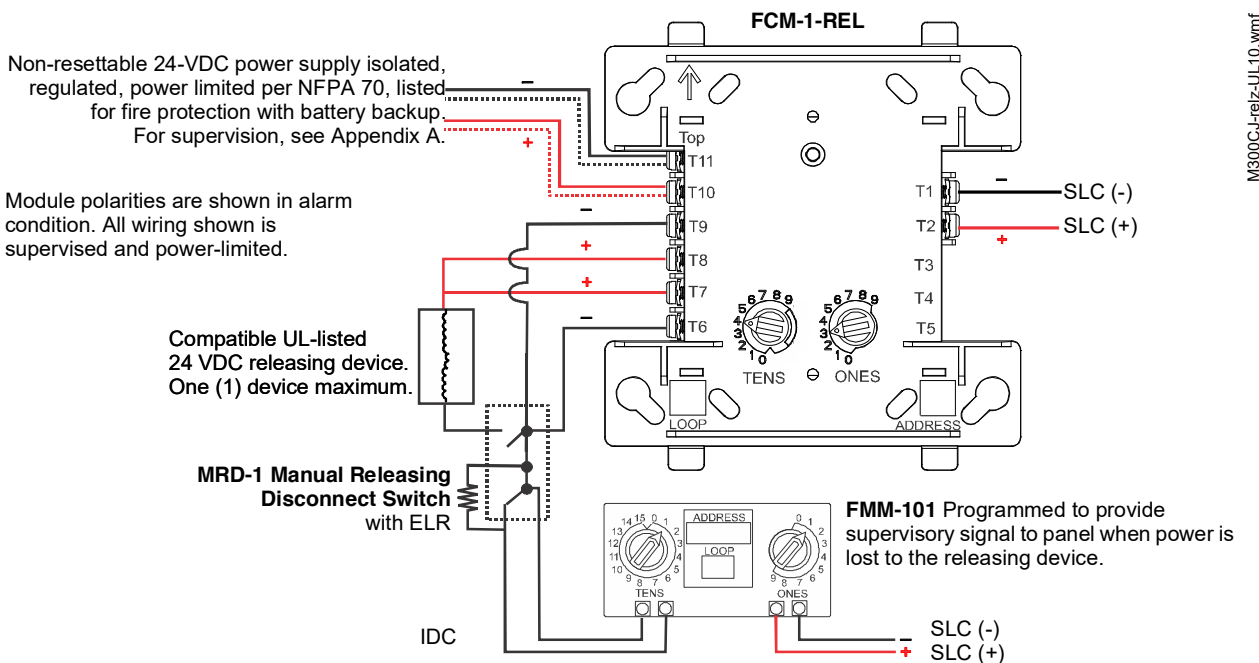


Figure 7.7 NFPA Class A Wiring of the FCM-1-REL with MRD-1 Manual Releasing Disconnect Switch and FMM-101

Section 9: Multiple Input/Output Modules

Note added that N16 does not support Legacy Type V models of FDM-1.

9.1.1 FDM-1

The FDM-1 is similar to the FMM-1, except intended for use in intelligent two-wire systems providing two independent Class B IDCs at two separate, consecutive addresses. Addresses can start using either an even or odd number.
NOTE: N16 does not support Legacy Type V FDM-1. (See Appendix C for identification.)

Section 10: Intelligent Detectors, Intelligent Detector Bases, and Wireless Gateway

For Section 10.1.2 and Section 10.6, N16 support is added for VESDA-E SLC device, and new VESDA-E devices and listings are added.

10.1.2 Intelligent Aspiration Detectors

N16 support is added for VESDA-E SLC devices.

New VESDA-E devices and listings are added to the list in Section 10.1.2 of the SLC Wiring Manual.

VESDA-E series aspirating smoke detectors use continuous air sampling to provide the earliest possible warning of a fire hazard. For use with NFS-320, NFS-320SYS, NFS2-640, NFS2-3030, and N16 (firmware v6.x or higher). Specific protocols available to individual VESDA-E devices are called out in device descriptions for clarity. Use the Xtralis VSC software to set the SLC/DCL address and configure the detector. Use VeriFire Tools to set the flow thresholds of the device.

VESDA-E, UL 268 6th edition/ULC for use in FlashScan mode:

- **VEP-A00-P-NTF** Addressable VESDA-E VEP with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEP-A10-P-NTF** Addressable VESDA-E VEP with 3.5" Display, FlashScan, UL 268 6th edition/ULC
- **VEP-A00-1P-NTF** Addressable VESDA-E VEP 1 Pipe with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEU-A00-NTF** Addressable VESDA-E VEU with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEU-A10-NTF** Addressable VESDA-E VEU with 3.5" Display, FlashScan, UL 268 6th edition/ULC
- **VEA-040-A00-NTF** Addressable VESDA-E VEA-40 point with LEDs, FlashScan, UL 268 6th edition/ULC
- **VEA-040-A10-NTF** Addressable VESDA-E VEA-40 point with 3.5" Display, FlashScan, UL 268 6th edition/ULC

VESDA-E, UL 268 7th edition/ULC:

- **VEP-A00-P-NTF-UL** Addressable VESDA-E VEP with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEP-A10-P-NTF-UL** Addressable VESDA-E VEP with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEP-A00-1P-NTF-UL** Addressable VESDA-E VEP 1 Pipe with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEU-A00-NTF-UL** Addressable VESDA-E VEU with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEU-A10-NTF-UL** Addressable VESDA-E VEU with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEA-040-A00-NTF-UL** Addressable VESDA-E VEA-40 point with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
- **VEA-040-A10-NTF-UL** Addressable VESDA-E VEA-40 point with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
- **VES-A00-P-NTF-UL** Addressable VESDA-E VES scanning detector with LEDs, FlashScan, UL 268 7th edition/ULC
- **VES-A10-P-NTF-UL** Addressable VESDA-E VES scanning detector with 3.5" Display, FlashScan, UL 268 7th edition/ULC

VESDA-E SLC 2nd Generation Detectors (VESDA-E, UL 268 7th edition/ULC)

- **VEP-A00-P-NTF-VN** Addressable VESDA-E VEP-VN with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEP-A10-P-NTF-VN** Addressable VESDA-E VEP-VN with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEP-A00-1P-NTF-VN** Addressable VESDA-E VEP-VN 1 Pipe with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEU-A00-NTF-VN** Addressable VESDA-E VEU-VN with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VEU-A10-NTF-VN** Addressable VESDA-E VEU-VN with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VES-A00-P-NTF-VN** Addressable VESDA-E VES-VN scanning detector with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
- **VES-A10-P-NTF-VN** Addressable VESDA-E VES-VN scanning detector with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC

10.6 Wiring and Programming Aspiration Detectors

In Section 10.6 of the SLC Wiring Manual, a wiring instructions are added for Intelligent VESDA-E SLC 2nd Generation Detectors, with reference to the wiring diagrams provided in the device documents.

VESDA-E SLC 2nd Generation Detectors

VESDA-E devices ending in -VN can be wired in Class A, Class B or Class X configurations.

Aux Power Connections. Power supply must be UL fire listed, regulated, supervised, power supply, evaluated for the SLC's class designation, and match the performance requirements of the SLC's class designation. For Class X, power connections must be routed within 20 ft in conduit of the power supply. For Class A and B power connection wiring diagrams, see Appendix A.

SLC/DCL Connections.

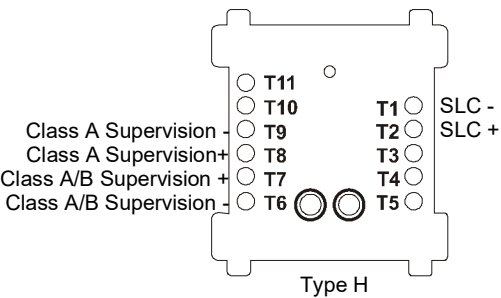
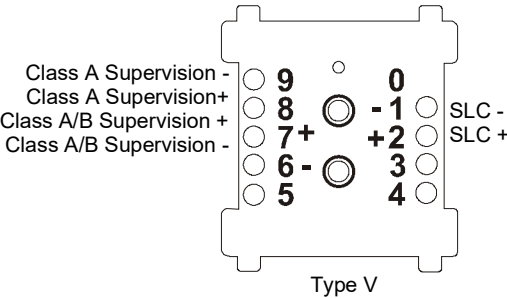
For Class X wiring see Section 2.3. For Class A wiring see Section 4.3. For Class B wiring, see Section 2.2. Refer to the device documentation for specific SLC/DCL connections.

Use the Xtralis VSC software to set the SLC address and configure the detector. Use VeriFire Tools to set the flow thresholds of the device. Refer to device documentation for details.

Appendix C: Terminal Conversion Charts for V-type and H-type Devices

Note added that N16 does not support Legacy Type V models of FDM-1.

C.4 FDM-1



V-type Terminal Number	Terminal Function	H-type Terminal Number
1	SLC -	1
2	SLC +	2
3	Unused	3
4	Unused	4
5	Unused	5
6	Class A/B Supervision -	6
7	Class A/B Supervision +	7
8	Class A Supervision +	8
9	Class A Supervision -	9
N/A	Unused	10
N/A	Unused	11

Table 1.2 FDM-1 Terminal Conversions



NOTE: "Type V" FDM-1 modules are not compatible with N16 series panels.

Appendix E: Canadian Versions of SLC/DCL Devices

New UL/ULC-listed VESDA-E devices are added; -UL series VESDA-E devices are ULC listed.

Releasing support is added for N16 in UL applications.

Note added that N16 does not support Legacy Type V models of FDM-1A.

UL-listed SLC/DCL Device	ULC-listed SLC/DCL Device	Description
VESDA-E SLC/DCL Devices UL 268 7th edition/ULC		
VEP-A00-P-NTF-UL	VEP-A00-P-NTF-UL	Addressable VESDA-E VEP with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
VEP-A10-P-NTF-UL	VEP-A10-P-NTF-UL	Addressable VESDA-E VEP with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
VEP-A00-1P-NTF-UL	VEP-A00-1P-NTF-UL	Addressable VESDA-E VEP 1 Pipe with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
VEU-A00-NTF-UL	VEU-A00-NTF-UL	Addressable VESDA-E VEU with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
VEU-A10-NTF-UL	VEU-A10-NTF-UL	Addressable VESDA-E VEU with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
VEA-040-A00-NTF-UL	VEA-040-A00-NTF-UL	Addressable VESDA-E VEA 40 point with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
VEA-040-A10-NTF-UL	VEA-040-A10-NTF-UL	Addressable VESDA-E VEA 40 point with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
VES-A00-P-NTF-UL	VES-A00-P-NTF-UL	Addressable VESDA-E VES scanning detector with LEDs, FlashScan/CLIP, UL 268 7th edition/ULC
VES-A10-P-NTF-UL	VES-A10-P-NTF-UL	Addressable VESDA-E VES scanning detector with 3.5" Display, FlashScan/CLIP, UL 268 7th edition/ULC
VESDA-E SLC/DCL Devices UL 268 7th edition/ULC		
VEP-A00-P-NTF-VN	VEP-A00-P-NTF-VN	Addressable VESDA-E VEP-VN with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
VEP-A10-P-NTF-VN	VEP-A10-P-NTF-VN	Addressable VESDA-E VEP-VN with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC
VEP-A00-1P-NTF-VN	VEP-A00-1P-NTF-VN	Addressable VESDA-E VEP-VN 1 Pipe with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
VEU-A00-NTF-VN	VEU-A00-NTF-VN	Addressable VESDA-E VEU-VN with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
VEU-A10-NTF-VN	VEU-A10-NTF-VN	Addressable VESDA-E VEU-VN with 3.5" Display, FlashScan, VESDANet
VES-A00-P-NTF-VN	VES-A00-P-NTF-VN	Addressable VESDA-E VES-VN scanning detector with LEDs, FlashScan, VESDANet, UL 268 7th edition/ULC
VES-A10-P-NTF-VN	VES-A10-P-NTF-VN	Addressable VESDA-E VES-VN scanning detector with 3.5" Display, FlashScan, VESDANet, UL 268 7th edition/ULC

Control Modules		
FCM-1-REL	FCM-1-RELA	Control Module for releasing applications. FlashScan only. ((FCM-1-REL for use in UL applications with N16, NFS2-3030, NFS2-640, NFS-320(C), and NFS-320SYS.) (FCM-1-RELA for use in ULC applications with NFS2-3030, NFS2-640, NFS-320C, and NFS-320SYS.)
FDM-1	FDM-1A	Provides two independent 2-wire Initiating Device Circuits (IDCs) at two separate, consecutive addresses. Wire supervised IDCs as NFPA Class B or Class A circuits. The modules come with a thermoplastic cover for mounting to a 4-inch (10.16 cm) square mounting box. NOTE: N16 does not support Legacy Type V FDM-1. (See Appendix C on page 71 for identification.)