



VF6011 Conventional Zone Module



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Application

The VES **VF6011** provides installing dealers with the ability to upgrade locations on a phased approach or monitor a zone of conventional detectors.

This capability is key to satisfying customer needs for a system upgrade over time, and allows a best case application of technology to match the upgrade with the customer's budget.

All sensors may be monitored by the same eLAN Panel during the upgrade, reducing the potential confusion of "old and new" panel alarms

Operation

The VES Conventional Zone Module (VF6011) is designed for use on the eLAN analog addressable system. Up to 127 devices can be placed on a single SLC loop. The device address is uniquely stored on an onboard EEPROM.

The module allows the panel to interface and monitor dry contacts such as two-wire conventional detectors. Each VF6011 is addressed through the panel and transmits the status of one zone of devices (25 maximum per zone) back to the panel.

The VF6011 supervises the power supply as well as the entire zone of devices. Status conditions are reported as normal, open or alarm. All 2-wire smoke detectors must be UL listed as compatible to be interfaced with the VF6011.

The interrupt driven Digital Communication Protocol (DCP) combines maximum communication reliability and fast response to emergency conditions. The module has a single bi-colored LED to indicate device status.

It fits into a standard 4" square or double gang electrical back box.

After addressing, Conventional Zone Modules are fully configurable through eSP downloading or eSP Transfer Agent.

Standard Features

- Provides an address point for a zone of up to 25 conventional smoke detectors
- Blinks green when polled. Latched on red (controlled by panel) when activated
- Device address can also be programmed with a handheld programmer. Device address- ranges from 1 to 127
- Compatible with Class B (Style B) and Class A (Style D) wiring
- Auxiliary power source provides power for the zone of detectors
- Compatible with conventional detectors, SLR, SIJ, SLK and SIH series

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Conventional Zone Module (VF6011). The modules shall be UL listed and compatible with the VES Analog eLAN Protocol.

The device address shall be electrically programmable and stored in EEPROM. A bi-colored LED shall indicate device status. The VF6011 shall be supplied with a plastic cover and shall be suitable for mounting to a 4" square or double gang electrical back box. The VF6011 shall provide a monitor LED that is visible from outside the cover plate.

State-of-the-art communications protocol, DCP, allows multiple system component types to be used concurrently in a system's signal conditioning loop.

List of Compatible Devices

Detector Model	Detector Type	Base Model
SLK-24F	Photoelectric	HSB-224
SIH-24F	Ionization	HSB-224
SLR-24H	Photoelectric w/heat	NS4-224, NS6-224
SLR-24V	Photoelectric	NS4-224, NS6-224
SLR-835/-835W	Photoelectric (8-35V)	NS4-224, NS6-224 NS4-224W, NS6-224W
SLR-835H/-835HW	Photoelectric (8-35V) w/thermal	NS4-224, NS6-224 NS4-224W, NS6-224W
SLR-835B-2	Photoelectric (8-35V) (baseless)	N/A
SLR-835BH-2	Photoelectric (8-35V) w/thermal (baseless)	N/A
SIJ-24	Ionization	NS4-224, NS6-224
DCD-135/-190	Heat Fixed Temp/Rate of Rise	NS4-224, NS6-224
DFE-135/-190	Heat Fixed Temp	HSC-224L

Specifications	
Operating Voltage	17-41 VDC
Average Current Consumption (From S-SC)	400µA (typical Quiescent)
Aux. Supply Voltage Nominal	18.8—27.2 V
2-Wire Detector Loop Current— Standby Detector Load	1mA
EOL Device	4.7K Ohms
Data Transmission Current Temperature Range	22mA ± 20%
Operating Temperature Range	32° F to 120° F (0° C to 49° C)
Alarm Threshold Level	<1.5K Ohms
From Aux. Supply Alarm (Short across detector line)	60mA
Max. 2-Wire Conventional Detector Loop Resistance	50 Ohms (total SLC Length)
Open Circuit Threshold Level	>10K Ohms

Typical Wiring Diagrams

