

FCM-1

Control Module



Intelligent/Addressable Devices

General

The FCM-1 Addressable Control Module provides Notifier intelligent fire alarm control panels a circuit for Notification Appliances (horns, strobes, speakers, etc.) Addressability allows the FCM-1 to be activated, either manually or through panel programming, on a select (zone or area of coverage) basis.

Features

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop. The FCM-1 module requires power (for horns, strobes, etc.), or audio (for speakers).
- Integral LED "blinks" green each time a communication is received from the control panel and turns on in steady red when activated.
- LED blink may be deselected globally (affects all devices).
- High noise immunity (EMF/RFI).
- The FCM-1 may be used to switch 24-volt NAC power, audio (up to 70.7 Vrms).
- Wide viewing angle of LED.
- Direct-dial entry of address 01– 159 for FlashScan loops, 01 – 99 for CLIP mode loops.
- Compatible with FlashScan® and CLIP protocol systems

Applications

The FCM-1 is used to switch 24 VDC audible/visual power or high-level audio (speakers).

Operation

Each FCM-1 uses one of 159 possible module addresses on a SLC loop (99 on



CLIP loops). It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The FCM-1 supervises notification or control circuits.

Upon code command from the panel, the FCM-1 will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a module and a sensor address.

Specifications

Normal Operating Voltage:	15 to 32 VDC.
Maximum Current Draw:	6.5 mA (LED on).
Average Operating Current:	350 μ A direct poll, 375 μ A group poll with LED flashing, 485 μ A Max. (LED flashing, NAC shorted.)
Maximum NAC Line Loss:	4 VDC.
External supply voltage: (between Terminals T10 and T11)	Maximum (NAC) Regulated 24VDC. Maximum (Speakers) 125 V RMS, 50W.
Drain on external supply:	1.7mA maximum using 24VDC supply. 2.2mA using 80 V RMS supply
Max NAC Current Ratings:	2A
Temperature Range:	0°C to 49°C.
Humidity Range:	10% to 93% non-condensing.
EOL Value:	47K ohms.

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