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 μA direct poll, 375 μA group poll with LED flashing, 485 μA Max. (LED flashing, NAC shorted.)

Maximum NAC Line Loss: 4 VDC.

External supply voltage: 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.

Ordering Information

FG-05-024 FCM-1 Single intelligent control (monitored output) module