



DESCRIPTION

The 10-2413, Masterbox Supervisor is an interface option to provide activation of a master box on a Local Energy Type Auxiliary Fire Alarm System. The interface is designed to activate a master box over an electrical circuit that is electrically isolated from the municipal system circuits. The assembly includes the electronic circuit board mounted to a polished steel cover plate. The plate can be installed onto a 2 gang switch box, RACO 680 or equivalent.

COMPATIBILITY

The 10-2413 is compatible with the CyberCat Fire Alarm and Cheetah Xi Suppression Control Systems. Each system requires the 10-2413 to be interfaced with an addressable Supervised Control Module (P/N 55-042/55-047).

SPECIFICATIONS

Input Voltage: 24VDC
 Current Consumption: 22mA standby
 283mA alarm
 Output: 2 Amp max. @ 24VDC
 Power Limited
 Rated for 14.5 to 500 Ω coil
 Minimum 18AWG wire
 Dimensions (LxWxD):
 4.56" x 4.5" x 1"
 (11.6cm x 11.43cm x 2.54cm)
 Weight (Circuit Board): 0.32 lbs. (145 grams)
 Operating Temp: 32°F to 120°F
 (0°C to 49°C)
 Operating Humidity: 93% RH, non-condensing

LISTINGS AND APPROVALS

UL S3217
 FM 3023436
 CSFM 7165-0900:137 CyberCat Non High-Rise
 7170-0900:148 CyberCat High-Rise
 7165-0900:149 Cheetah Xi Non High-Rise
 MEA 490-04-E CyberCat 254/1016
 307-05-E Cheetah Xi
 490-04-E Vol. 2 CyberCat 50
 307-05-E Vol. 2 Cheetah Xi 50
 City of Denver

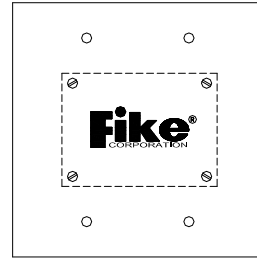


Exhibit 1: Masterbox Supervisor

PROGRAMMING

The C-Linx software requires the addressable notification output module to be configured in the system on the addressable loop. The activation state should be programmed for ALARM. The module should be non-silenceable and it should be non-functional for Walktest and Drill states.

OPERATIONS

The Masterbox Supervisor will monitor that the masterbox solenoid is connected and free from ground faults. If the wiring is open, shorted, or grounded the NORM LED will turn OFF and the addressable output module will register a trouble at the associated control panel. The same trouble response would also be the case if 24V power is removed from the module.

When the addressable output module activates from the programmed alarm state, it signals the Masterbox Supervisor to activate the Masterbox solenoid. It applies 24VDC to the coil for activation. The module's ACTIVE LED will turn ON; the NORM LED will turn OFF. The output will remain active until Reset.

SPARE PARTS

10-2397 Masterbox Supervisor
 (Printed Circuit Board only)
 10-2414 Cover Plate with Fike logo
 02-2715 Standoff, 0.625" M/F, 6x32 hex
 02-1589 Screw, 6-32 x 0.375 Phillips
 02-1361 Hex Nut, #6-32
 4153-142 Lock Washer, #6

INSTALLATION INSTRUCTIONS

1. If the system is already powered, disable critical functions and power down system.

⚠ CAUTION

The Masterbox Supervisor circuit board contains static sensitive components. Handle the electronics by the edges only and avoid touching the integrated components. Keep the electronics in the protective static bag it was shipped in until time for installation. Always ground yourself with a proper wrist strap before handling the module(s). If the installer is properly grounded at all times, damage due to static discharge will not occur. If the module requires repair or return to Fike, it must be shipped in an anti-static bag.

2. Carefully unpack the module and check for shipping damage.
3. Install the Control Module and Power Supply wiring to the module as noted in Exhibit 2.
4. Move SW1 to the position that appropriately matches the resistance of the masterbox solenoid coil (10-100Ω or 100-500Ω).
5. Apply power, program, and test for proper operation.
6. Once proper operation is validated, fully secure mounting plate to the switch box using the 4 screws provided.

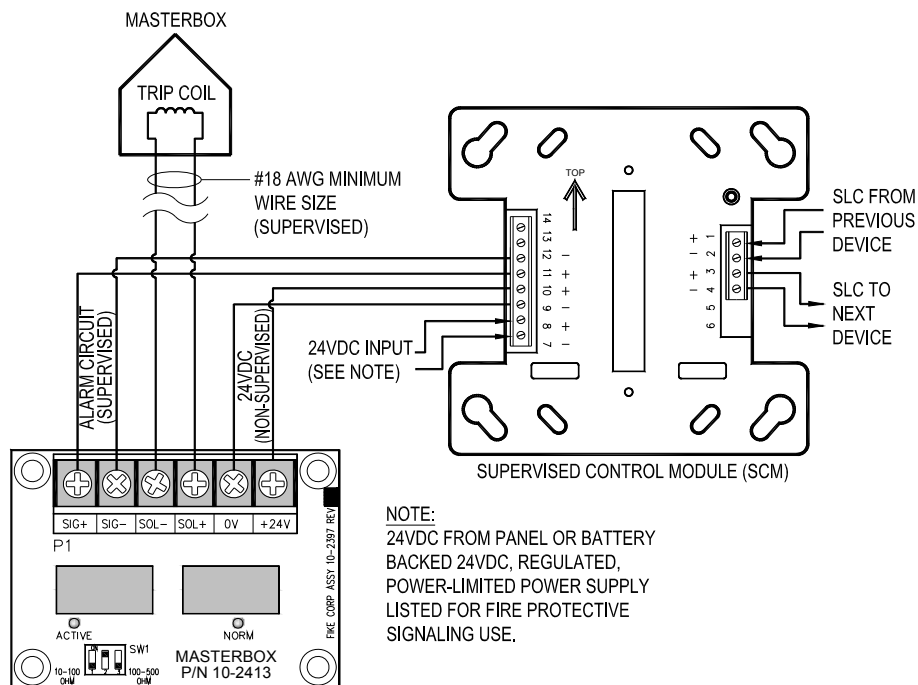


Exhibit 2: Masterbox Supervisor Wiring Diagram