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”
- Weight (Circuit Board): 0.32 lbs. (145 grams)
- Operating Temp: 32ºF to 120ºF (0ºC to 49ºC)
- 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

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

(Exhibit 1: Masterbox Supervisor)
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