

MASTER BOX SUPERVISOR

DESCRIPTION

The Master Box Supervisor, P/N 10-2413, provides a connecting link between Fike's Cheetah Xi® and CyberCat® intelligent control panels and a 'Master Fire Alarm Box' connected to the municipal fire alarm system. This connection allows any alarm generated by the Fike panel to be automatically transmitted to the municipal communication center meeting the requirements of NFPA 72 for an 'Auxiliary Protective Signaling System', Local Energy type. The module requires 24Vdc power from the control panel and must be connected to an addressable control module (P/N 55-042 or 55-047) for activation.

SPECIFICATIONS

Input Voltage:	24Vdc
Standby Current:	22mA
Alarm Current:	283mA
SOL Output:	2A max. @ 24Vdc Power-limited 14.5 - 500Ω trip coil 18 AWG wire min.
Dimensions (LxWxD):	4.56" x 4.5" x 1" (11.6 cm x 11.43 cm x 2.54 cm)
Weight:	0.32 lbs. (145 g)
Operating Temp:	32°F to 120°F (0°C to 49°C)
Operating Humidity:	93% RH, NC

INSTALLATION

The module consists of an electronic circuit board mounted to a polished stainless steel cover plate. Mounting holes provided in the cover plate allow the module to be mounted to a standard 2-gang switch box, RACO 680 or equivalent. Wiring between the master box module and the 'Master Fire Alarm Box' shall be installed in accordance with: 1) Master Fire Alarm Box manufacturer's specifications; 2) requirements of NFPA 72, National Fire Alarm Code, Chapter 27; and 3) requirements of NFPA 70, National Electrical Code (NEC).

OPERATION

The interconnect wiring between the master box module and the 'Master Fire Alarm Box' is electrically isolated; however, the module will supervise for the presence of the master box trip-coil and for wiring faults (open, shorts, and grounds) on the interconnect wiring. If a wiring fault is detected or if 24V power to the master box module is removed, the 'NORM' LED on the module will turn off and the addressable control module connected to the master box module will go into trouble.

Upon receipt of an Alarm event by the control panel, the addressable control module will activate applying 24Vdc to the trip-coil on the 'Master Fire Alarm Box'. The 'ACTIVE' LED on the module will turn on and the 'NORM' LED will turn off. The city-tie module will remain active until the ALARM event is cleared and the control panel is reset.

A city-tie disconnect switch (Refer to data sheet P.1.123.01) can be used to disable the output when necessary for system testing. Upon operation of the disconnect switch, a trouble condition is initiated on the system. Alarms will not be transmitted to the municipal communication center over the municipal fire alarm system while the disconnect switch is activated.

Critical Note: The addressable control module connected to the master box module must be configured as non-silenceable and non-functional for system Walk-test and Drill operation.

APPROVALS:

- UL - S3217
- FM Approved
- CSFM – 7165-0900:137 (CyberCat)
7165-0900:149 (Cheetah Xi)
- City of New York - #6119
- City of Denver
- City of Chicago



ORDERING INFORMATION

Fike P/N	Description
10-2413	Master Box Supervisor Card
10-2397	Master Box Module (circuit board only)
10-2414	Cover Plate
02-2715	Standoff (6-32 hex M/F, 0.625" long)
02-1589	Screw (6-32 x 0.375 Phillips)
02-1361	Hex Nut (6-32)
4153-142	Lock Washer (#6)
55-042	Addressable Control Module (Standard)
55-047	Addressable Control Module (Isolated)

WIRING DIAGRAM

