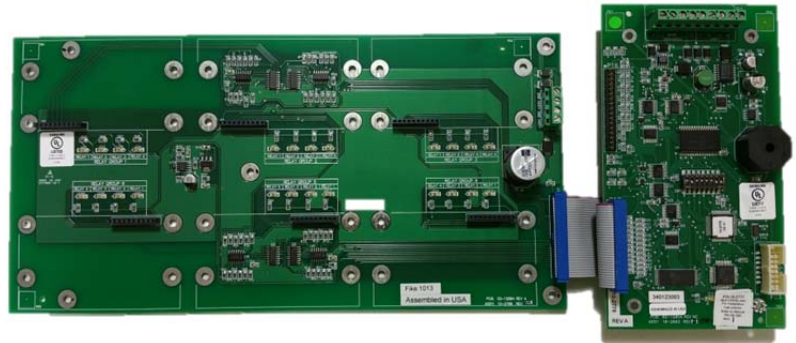


## RELAY CONTROL ASSEMBLY

### DESCRIPTION

The Relay Control Assembly (P/N 10-2777) provides a means to add up to twenty-four programmable relays to the Fike Cheetah® Xi and CyberCat® control panels with panel firmware version 5.00 or higher. The relays can be used to provide system status indication, control of electrical loads and for general purpose switching. The assembly includes a relay control card (P/N 10-2778), bus card (P/N 10-2769) and interface cable (P/N 10-2784). The control card provides the command and control interface between the host control panel and the relay cards. The bus card provides the mounting location for up to six CRM4 relay cards (P/N 10-2204) or six HPM4 relay cards (P/N 10-2770), sold separately. The two relay card types cannot be intermixed on the same bus card. The bus card is equipped with LEDs at each relay card mounting position to provide positive indication when the associated relay coil is energized.



Refer to Fike Data Sheets D.1.14.01 and P.1.150.01 for CRM4 and HPM4 information.

### MOUNTING

The assembly mounts within the Fike Cheetah Xi and CyberCat fire command center (FCC) enclosures or the three or five slot remote equipment enclosures (see ordering information) using the mounting hardware provided with the assembly.

### COMMUNICATION AND WIRING

Communication and supervision between the host control panel and the relay control assembly is accomplished via an RS485 serial interface. 24Vdc power for the assembly is provided via a separate power loop from the control panel. Loss of power will result in a communication failure at the control panel. Command and control operation is conveyed between the control card and the bus card via the ribbon cable connection.

### OPERATION

Each relay can be individually programmed for any of the following functions: 1) Activate for a specific device (i.e., Activation, Trouble, PreAlarm); 2) Activate for a panel zone event (i.e. Process, Trouble, Supervisory, Abort, Disabled, PreAlarm, Alarm, PreDischarge, Release, Test Alarm, Action); 3) Activate or deactivate for a network device event (i.e., ON-Any Network Device, ON-Any Network Device Trouble, ON-Any Network Device PreAlm, OFF-Any Network Device, OFF-All Network Device). Once transferred, the relay contacts will remain in the active or deactive state until the control panel is reset or power to the assembly is removed, unless the event the relay is programmed for is a non-latching event.

### APPROVALS:

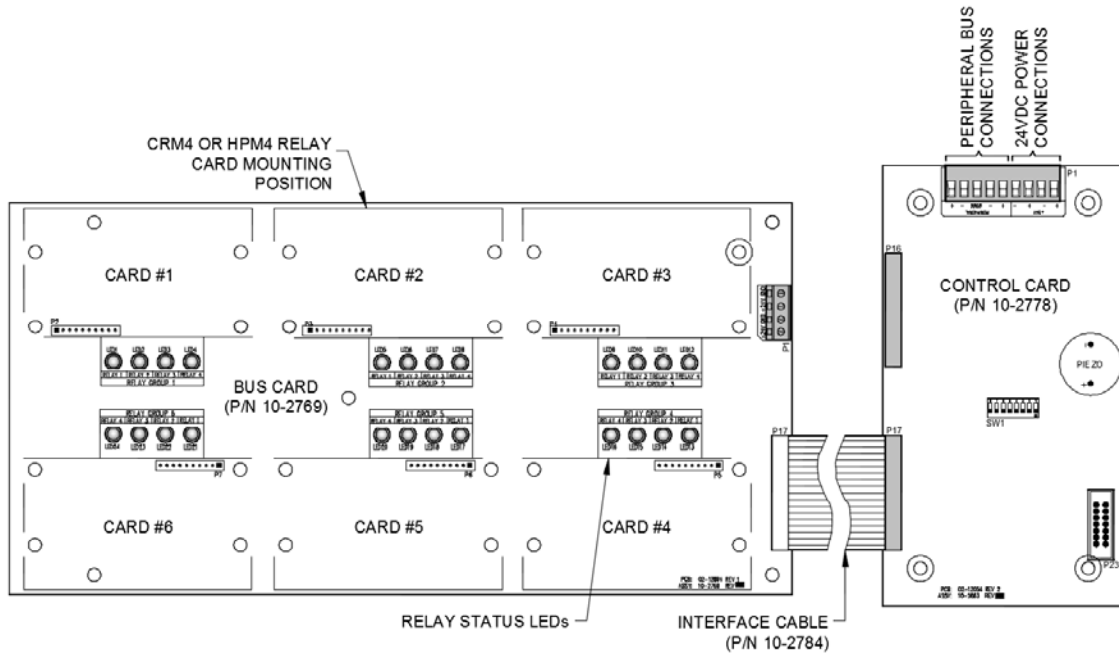
- UL
- FM
- CSFM - 7300-0900:0154
- City of New York - #6078





**IMPORTANT NOTE:** Relays connected to the bus card may temporarily transfer on initial power-up of the assembly; therefore, it is strongly recommended that all field wiring be disconnected from the relays on initial power up of the assembly. In addition, the relays cannot be disabled using the control panel’s zone disable functionality; therefore, Fike strongly recommends that the assembly’s relays NOT be used for critical functions (such as process shutdown, emergency power off, AHU shutdown, etc.). If these functions are interrupted they could cause serious financial, legal, or other damages or penalties.

## BOARD CONFIGURATIONS



## SPECIFICATIONS

	Control Card (P/N 10-2778)	Bus Card (P/N 10-2769)
Compatibility	Fike Cheetah Xi and CyberCat panels (including 50pt models)	
Communication	RS485 peripheral bus connection to host control panel	34-pin ribbon cable connection (P/N 10-2784) to control card
Power	24Vdc, supplied by the host control panel or 24V battery backed, regulated, power-limited power supply listed for fire protective signaling use. Ground fault detection on external supply must be disabled to prevent trouble from occurring on Fike panel.	
Current Draw	47 mA (normal standby) 109 mA (alarm), includes bus card	0 mA (normal standby) 38 mA (alarm), LEDs on but no relays attached
Operating Temp:	32°F to 120°F (0°C to 49°C)	
Operating Humidity:	93% RH, non-condensing	
Terminal Blocks	Accept 12 – 26 AWG	
Dimensions (LxWxH)	3.7" x 6.75" x 1" (9.4 cm x 17 cm x 2.5 cm)	12" x 6" x 1" (30.5 cm x 15.2 cm x 2.5 cm)



## ORDERING INFORMATION

Fike P/N	Description
10-2777	Relay Control Assembly
10-2769	Relay Bus Card (included in 10-2777)
10-2778	Relay Control Card (included in 10-2777)
10-2784	34 pin Control to Bus Card Interface Cable (included in 10-2777)
<b>Relay Cards (ordered separately)</b>	
10-2204	CRM4 Relay Card
10-2770	HPM4 Relay Card
<b>Spare Mounting Hardware/Accessories</b>	
02-12014	Standoff Hardware Kit (one kit provided with relay assembly)
10-2799	100 ohm termination resistor
<b>Enclosure Options (-C is for color R=Red B=Black G=Grey)</b>	
10-2483-C-L-23-O-2	CyberCat 1016, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 relay assemblies)
10-2527-C-L-23-O-2	CyberCat 254, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 relay assemblies)
10-2541-C-L-23-O-2	Cheetah Xi 1016, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 relay assemblies)
10-2780-C	3 Slot Remote Equipment Enclosure (ability to mount 3 relay assemblies)
10-2781-C	5 Slot Remote Equipment Enclosure (ability to mount 5 relay assemblies)