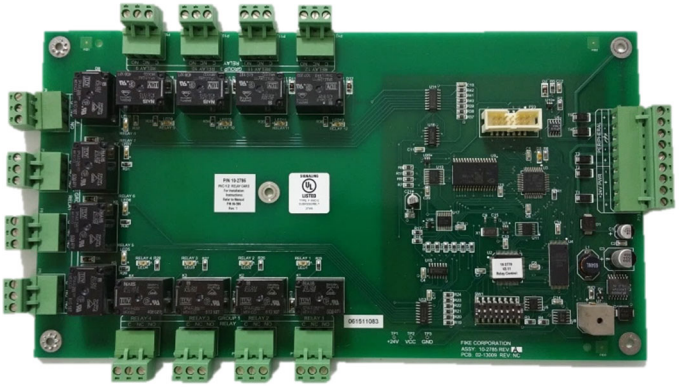
DATA SHEET

RC12 RELAY CARD



DESCRIPTION

The RC12 Relay Card (P/N 10-2785) provides a means to add twelve 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 relay card is equipped with LEDs at each relay position to provide positive indication when the associated relay coil is energized.

MOUNTING

The relay card 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 card is accomplished via an RS485 serial interface. 24Vdc power for card is provided via a separate power loop from the control panel. Loss of power will result in a communication failure at the control panel.

OPERATION

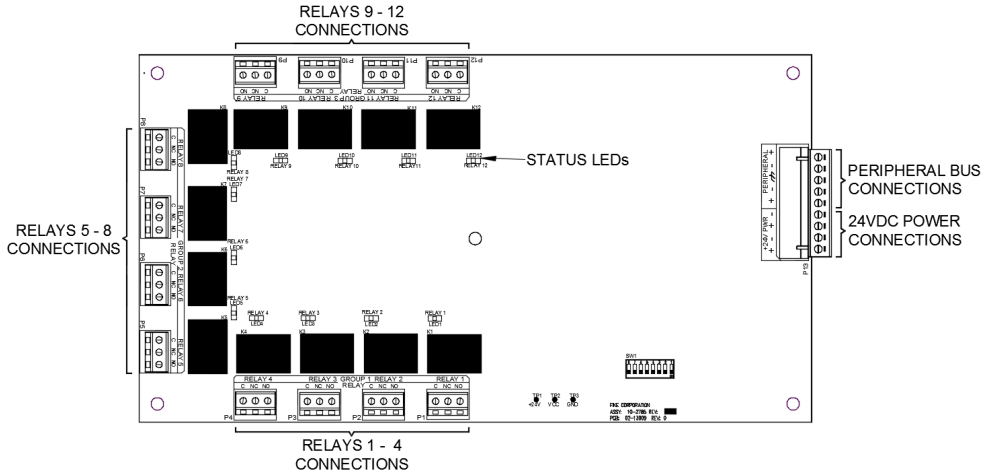
Each relay can be individually programmed for any of the following functions: 1) Activate for a specific device (i.e., Activation, Trouble, PreAlarm); 2) Activate for a panel zone event (i.e. Process, Trouble, Supervisory, Abort, Disabled, PreAlarm, Alarm, PreDischarge, Release, Test Alarm, Action); 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.

IMPORTANT NOTE: The cards relays 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 system. In addition, the relays cannot be disabled using the control panel's zone disable functionallity; therefore, Fike strongly recommends that the card'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.

APPROVALS:

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

BOARD CONFIGURATION



SPECIFICATIONS

Compatibility	Fike Cheetah Xi and CyberCat panels (including 50 point models)
Communication (P13)	RS485 peripheral bus connection to host control panel
Power (P13)	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	32 mA (normal standby) 256 mA (alarm), all relays active
Relays (P1 – P12)	SPDT Form-C (NO,NC, C)
	DC Operation 2.5A @ 30VDC AC Operation 5A @ 125VAC
	Can connect to power-limited or non-power-limited wiring, not both
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)	11” x 6” x 1” (4.3 cm x 15.3 cm x 2.5 cm)

ORDERING INFORMATION

Fike P/N	Description
10-2785	RC12 Relay Card
02-12420	Standoff Hardware Kit (one kit provided with RC12 relay card)
Enclosure Options (-C is for color R=Red B=Black G=Grey)	
10-2483-C-L-23-O-2	CyberCat 1016, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 RC12 relay cards)
10-2527-C-L-23-O-2	CyberCat 254, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 RC12 relay cards)
10-2541-C-L-23-O-2	Cheetah Xi 1016, 23 Card, FCC Enclosure (-2 is for FCC enclosure with ability to mount 2 RC12 relay cards)
10-2780-C	3 Slot Remote Equipment Enclosure (ability to mount 3 RC12 relay cards)
10-2781-C	5 Slot Remote Equipment Enclosure (ability to mount 5 RC12 relay cards)