



### DESCRIPTION

The 10-2770, HPM4 Relay Module provides four (4) individual single pole, double throw (SPDT) relay contacts. Each relay is configurable to transfer upon activation of the associated zone/state.

The module mounts directly to the relay bus card (P/N 10-2769) using the following mounting hardware provided with the module.

Standoff Hardware Kit, P/N 02-12031

- 02-3794 Standoff, 1.25" F/F, 6x32 hex (qty. 4)
- 02-1589 Screw, 6-32 x 0.375 Phillips (qty. 8)

### COMPATIBILITY

The HPM4 is compatible with Fike's Cheetah Xi™ 50, Cheetah Xi™, CyberCat™ 254, CyberCat™ 1016 and CyberCat™ 50 control panels.

### SPECIFICATIONS

Current Consumption: 0 mA (normal standby)  
86 mA (alarm), all relays active

Relays 1 – 4 (P42): SPDT Form C relay contact  
C = Common  
NO = Normally Open  
NC = Normally Closed

DC Operation: 5 A @ 30 VDC (pf = .35)

AC Operation: 5 A @ 250 VAC (pf = .35)

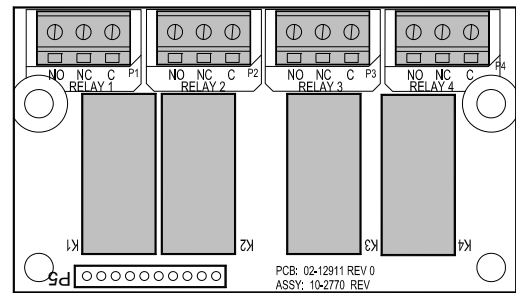
Dimensions (LxWxD): 3.5" x 2" x 2"  
(8.9cm x 5.08cm x 5.08cm)

Weight: 0.10 lbs. (45 grams)

Operating Temp: 32°F to 120°F (0°C to 49°C)

Operating Humidity: 93% RH, non-condensing

**Note:** Relay connections shall be power limited or non-power limited, not both.



**Exhibit 1 HPM4 Relay Module**

### PROGRAMMING

The HPM4 must be added to the control panel configuration to enable module supervision and to configure relay functions. Each relay output can be individually configured for any zone and state output on the Cheetah Xi™, and CyberCat™ control systems using the panel's configuration menus or the panel's respective system configuration software.

### OPERATION

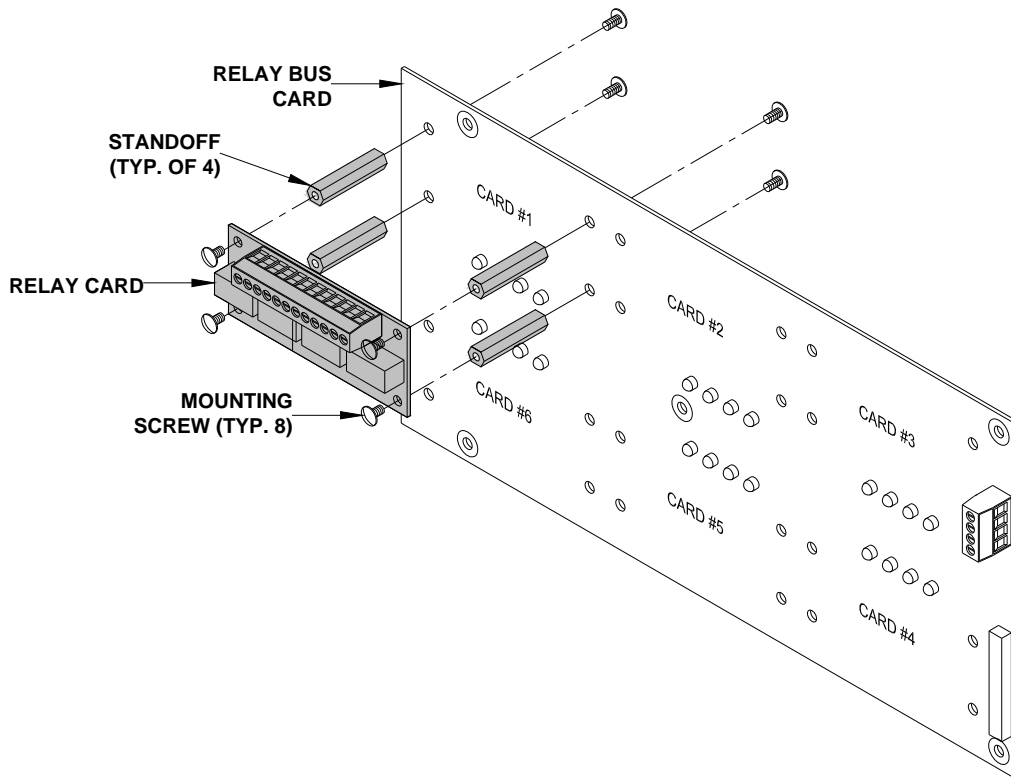
The control panel provides full programmability of the HPM4 relay contacts for any zone and state in the system. Common functions consist of HVAC system shutdowns, door closures, fans control, and communication to building interfaces.

**Note:** Relays may temporarily transfer on power-up. If using relay(s) for critical functions, it is strongly recommended that the relays be disabled on power-up of the control panel.

### MODULE MOUNTING POSITION

The relay bus card (P/N 10-2769) provides mounting locations for up to six (6) HPM4 relay modules. See Exhibit 2. Each mounting position corresponds with the relay configuration group used by the panel's programming software C-Linx to configure the relay operation.

The relay module mounting position must correspond with the panel's relay configuration group for proper relay operation to occur.



**Exhibit 2 HPM4 to Relay Bus Card Installation**

## INSTALLATION

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

### **⚠ CAUTION**

The HPM4 circuit board contains static sensitive components. Observe static sensitive material handling practices.

2. If the relay bus card is already installed in the back-box, remove it by disconnecting the field wiring from the terminal blocks and removing the four (4) 6x32 screws located in each corner of the board.
3. Secure the F/F standoffs (qty. 4) to the bus card by threading the four 6x32 screws through the back of the card into the standoffs. See Exhibit 2.
4. Re-install the bus card by aligning the four mounting holes with the standoffs in the enclosure back-box. Secure in place with the four 6x32 screws.

5. Carefully unpack the relay module and check for shipping damage.
6. Insert the HPM4 module into the respective header provided on the bus card making sure that header pins are properly aligned.
7. Secure the relay module to the F/F standoffs using the four (4) 6x32 screws. See Exhibit 2.
8. Connect field wiring to the relay module and power up the system.

### **⚠ CAUTION**

During the first few seconds of power-up, the associated control panel may not have full control of the CRM4 relay contacts and they may momentarily chatter. If using the relays for critical functions, control the output closed or open respectively during controller power-up and power-down.