CRF-300-6(A)
Six Relay Control Module

General
Fire-Lite's CRF-300-6 six-relay control module provides an intelligent fire alarm system with six Form-C relays.

The first module is addressed from 01 to 154 while the remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of three unused modules. A single isolated set of dry relay contacts is provided for each module address, which is capable of being wired for either a normally-open or normally-closed operation. The module allows the control panel to switch these contacts on command. No supervision is provided for the controlled circuit.

Each CRF-300-6 module has panel-controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

Features
• Six addressable Form-C relay contacts
• Removable 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²) plug-in terminal blocks
• Status indicators for each point
• Unused addresses may be disabled
• Rotary address switches
• LiteSpeed or CLIP operation
• Mount one or two modules in a BB-2F cabinet (optional)
• Mount up to six modules on a CHS-6 chassis in a CAB-4 Series, or BB-6F cabinet (optional)
• Mounting hardware included

Specifications
Standby current: 1.45 mA (SLC current draw with all addresses used; if some addresses are disabled, the standby current decreases)
Alarm current: 32 mA (assumes all six relays have been switched once and all six LEDs solid ON)
Temperature range: 32°F to 120°F (0°C to 49°C)
Humidity: 10% to 93% non-condensing
Dimensions: 6.8” (17.27 cm) high x 5.8” (14.73 cm) wide x 1.0” (2.54 cm) deep
Shipping weight: 1.1 lb. (0.5 kg) including packaging
Mounting options: CHS-6 chassis, BB-6F cabinet, or BB-2F cabinet
Wire gauge: 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²)
Maximum SLC wiring resistance: 40 or 50 ohms, panel dependent
Relay current: 30 mA/relay pulse (15.6 ms pulse duration), pulse under panel control
Relay contact ratings: 30 VDC; 70.7 VAC

Current ratings:
• 3.0 A @ 30 VDC maximum, resistive, non-coded.
• 2.0 A @ 30 VDC maximum, resistive, coded.
• 1.0 A @ 30 VDC maximum, inductive (L/R = 2 ms), coded.
• 0.5 A @ 30 VDC maximum, inductive (L/R = 5 ms), coded.
• 0.9 A @ 110 VDC maximum, resistive, non-coded.
• 0.9 A @ 125 VAC maximum, resistive, non-coded.
• 0.7 A @ 70.7 VAC maximum, inductive (PF = 0.35), non-coded.
• 0.3 A @ 125 VAC maximum, inductive (PF = 0.35), non-coded.
• 1.5 A @ 25 VAC maximum, inductive (PF = 0.35), non-coded.
• 2.0 A @ 25 VAC maximum, inductive (PF = 0.35), non-coded.

Agency Listings and Approvals
These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.
• UL Listed: S2424
• ULC Listed: S2424 (CRF-300-6A)
• MEA Listed: 55-02-E
• CSFM: 7300-0075:0205
• Maryland State Fire Marshall: Permit # 2099
• FM Approved (Light Protective Signaling Only)
Product Line Information

CRF-300-6: Six-relay control module

CRF-300-6A: Same as above with ULC Listing

BB-2F: Optional cabinet for one or two modules. Dimensions, DOOR: 9.234" (23.454 cm) wide (9.484" [24.089 cm] including hinges), x 12.218" (31.033 cm) high, x 0.672" (1.706 cm) deep; BACKBOX: 9.0" (22.860 cm) wide (9.25" [23.495 cm] including hinges), x 12.0" (30.480 cm) high x 2.75" (6.985 cm), CHASSIS (installed): 7.150" (18.161 cm) wide overall x 7.312" (18.572 cm) high interior overall x 2.156" (5.476 cm) deep overall

BB-6F: Optional cabinet for up to six modules mounted on CHS-6 chassis (below). Dimensions, DOOR: 24.0" (60.96 cm) wide x 12.632" (32.085 cm) high, x 1.25" (3.175 cm) deep, hinged at bottom; BACKBOX: 24.0" (60.96 cm) wide x 12.550" (31.877 cm) high x 5.218" (13.253 cm) deep

CHS-6: Chassis, mounts up to six modules in a BB-6F cabinet

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