

NC-100(A)

Control Module for FireWarden Series Panels


Addressable

General

The **NC-100(A)** Addressable Control Module provides NOTIFIER's **FireWarden Series** intelligent control panels a supervised Class B (Style Y) or Class A (Style Z) circuit for Notification Appliances (horns, strobes, etc.). Addressability allows the NC-100(A) to be activated, either manually or through panel programming, on a select (zone or area of coverage) basis.

Features

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry powered directly by two-wire SLC loop. The NC-100(A) module requires power (for horns, strobes, etc.).
- Integral LED "blinks" when communicating, and turns on steady when activated.
- High noise immunity (EMF/RFI).
- The NC-100(A) may be used to switch 24-volt NAC power.
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.
- Direct Decade entry of address: 01 – 99 with FireWarden-100-2(C), or 01-50 with the FireWarden-50(C).

Applications

The NC-100(A) is used to switch 24 VDC audible/visual power.

Construction

- The face plate is made of off-white heat-resistant plastic.
- Controls include two rotary switches for direct-dial entry of address setting.
- The NC-100(A) is configured for a single Class B (Style Y) or Class A (Style Z) Notification Appliance Circuit.

Operation

Each NC-100(A) uses one of the module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The NC-100(A) supervises Class B (Style Y) or Class A (Style Z) notification or control circuits.

Upon code command from the panel, the NC-100(A) will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay-isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel.


NC-100(A)

Specifications

Normal operating voltage: 15 to 32 VDC.

Maximum SLC current draw: 6.5 mA (LED on).

Average operating current: 350 μ A (LED flashing).

External supply voltage: maximum 80 volts (RMS or DC).

Drain on external supply: 2 mA maximum (using internal EOL relay).

EOL resistance: 47K ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Agency Listings and Approvals

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **FM approved**
- **UL/ULC Listed:** file S635.
- **CSFM approved:** file 7300-0028:230.
- **MEA approved:** file 72-01-E Vol. 2.

Contact Ratings

Current Rating	Maximum Voltage	Load Description	Application
3 A	30 VDC	Resistive	Non-Coded
2 A	30 VDC	Resistive	Coded
.9 A	110 VDC	Resistive	Non-Coded
.9 A	125 VDC	Resistive	Non-Coded
.5 A	30 VDC	Inductive (L/R=5ms)	Coded
1 A	30 VDC	Inductive (L/R=2ms)	Coded
.3 A	125 VAC	Inductive (PF=0.35)	Non-Coded
1.5 A	25 VAC	Inductive (PF=0.35)	Non-Coded
.7 A	70.7 VAC	Inductive (PF=0.35)	Non-Coded
2 A	25 VAC	Inductive (PF=0.35)	Non-Coded

Product Line Information

NC-100: Intelligent addressable control module.

NC-100(A): Intelligent addressable control module, ULC listed version.

SMB500: Optional surface-mount backbox.

CB500: Optional control module barrier, required by UL for separating power-limited and non-power-limited wiring in the same junction box as NC-100(A).

NOTE: For installation instructions, see document I56-2592-001 and refer to the SLC Wiring Manual, document 52304. The NC-100R(A) relay module, previously on this data sheet, is now on DN-60383.

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