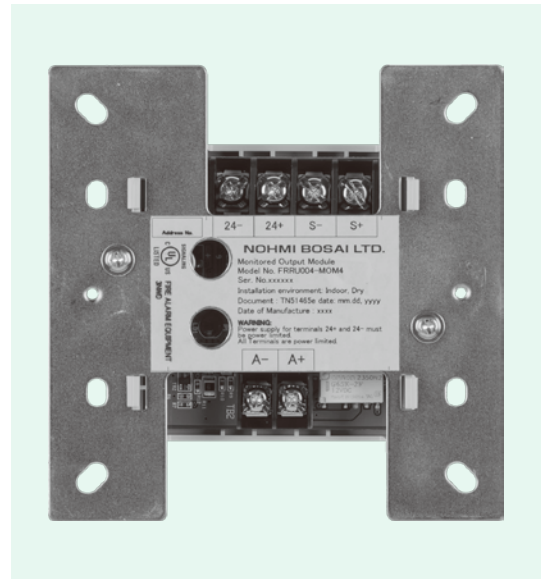


FRRU004-MOM4

MONITORED OUTPUT MODULE

Features

- One simple LED for status indication
- NFPA Class A (Styles 6 & 7) and Class B (Style 4) for SLC
- NFPA Class B (Style Y) for NAC
- UL listed with Potter/Amseco®, Gentex®, and Cooper Wheelock® syncro-modules and devices
- Electronic address setting
- Downsized unit
- Easy installation



Description

The Monitored Output Module (FRRU004-MOM4) provides a programmable source of power to control and operate output devices including notification appliances and releasing devices. Additionally, it continuously supervises wiring connected to terminals A+, A- for open or short circuits and 24+ and 24- when 24VDC is applied.

FRRU004-MOM4 employs one red LED to indicate the status. In normal condition, the LED flashes. When the output is activated, the LED will turn on constantly. In case of trouble, the LED will turn off.

Ordering Information

Model no. FRRU004-MOM4

Specifications

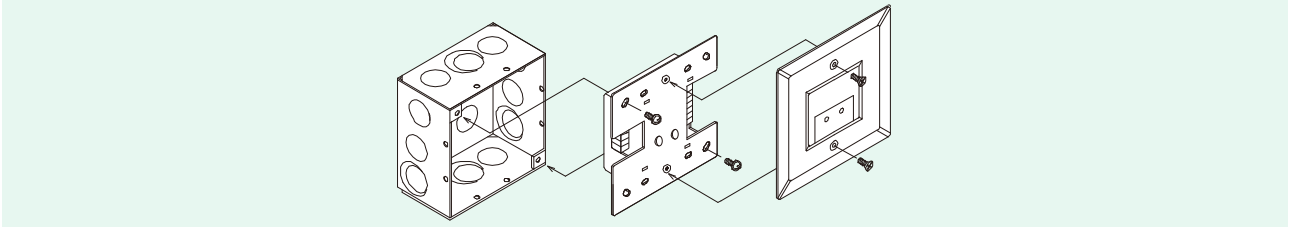
No.	Item	Specification
1	Rated voltage range of SLC input power (S+,S-)	22.0 to 24.0V
2	Maximum SLC 24 VDC standby current (S+,S-)	250µA
3	Maximum SLC 24 VDC alarm current (S+,S-)	1mA
4	Rating for connected device power (Releasing device and NAC)	24VDC, 2A
5	Max. supervising current for external 24 VDC input power (24+,24-)	1.6mA
6	Wiring style	NFPA Class B (Style Y)
7	End-of-line resistor value for notification appliance	5.1kΩ, 1/2W
8	End-of-line device for releasing device	5.1kΩ, 1/2W with diode
9	Maximum wiring resistance of output circuit wiring	Refer to Wiring diagram
10	Maximum wiring capacitance of output circuit wiring	1µF
11	Operating temperature range	0°C to 49°C (32°F to 120°F)
12	Operating humidity range	0 to 93% (non-condensing)
13	Dimensions	106mm (4.17 inches) (H) × 106mm(4.17 inches) (W)× 29mm (1.14 inch) (D)
14	Applicable electrical box for installation	North American 64mm (2-1/2 inches)deep 2-gang box Standard 4 inches square box 38mm (1-1/2 inch)deep box

Setting the Address

Each addressable module, smoke detector, heat detector and combination detector must have the address set before connecting the device to the Signaling Line Circuit (SLC) loop. The address is set using the hand held device programmer or the addressing feature on the control panel.

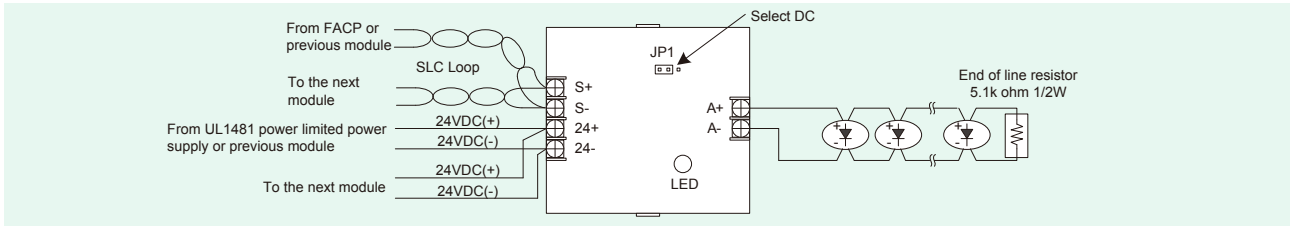
Installation

Figure 1: Installation into the compatible electrical box



Wiring Diagram

Figure 2: Output Connected to a NAC



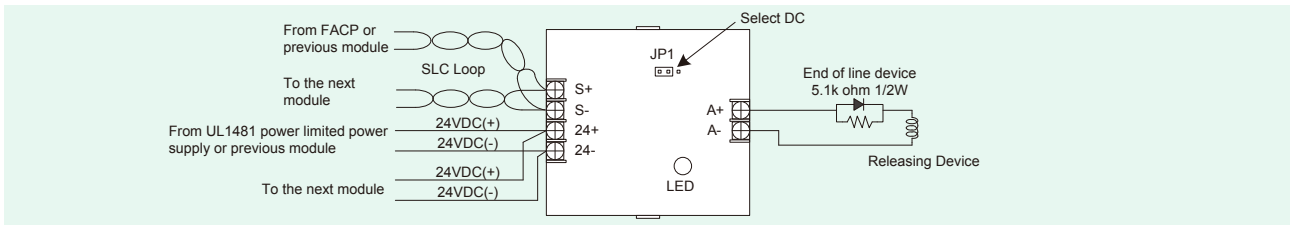
Note: 1. The following synchronization modules may be used for strobe synchronization.

- SM-12/24 (Wheelock)
- DSM-12/24 (Wheelock)
- SMD10-3A (AMSECO)

Refer to respective Sync Module manuals for the proper wire connection method and limitations.

2. when notification appliances are connected to the FRRU004-MOM4, additional FRRU004-MOM4 modules should be separated by a short circuit isolator (SCI). If wiring Class A, Style 7, then each FRRU004-MOM4 is required to have its own listed UL 1481 power supply.
3. When notification appliances are connected to the module, the resistance values of terminals OUT+, OUT- must be less than R max below.
 $R_{max} = (24V - V_{min}) / I_t$
 V_{min} : Min. operating voltage of connected device
 I_t : Total of operating current of connected device (ampere)

Figure 3: Output Connected to a Releasing Device



Note: 1. Only one Releasing Device can be connected per FRRU004-MOM4 module.

2. When a releasing device is connected to the module, resistance values of terminals OUT+, OUT- must be less than R max below.
 $R_{max} = (24V - V_{min} - 0.95V) / I_t$
 V_{min} : Min. operating voltage of connected device
 I_t : Total of operating current of connected device (ampere)
 $0.95V$: Voltage to be dropped in the end-of-line device

NOTICE

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Nohmi or a distributor in your region.

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