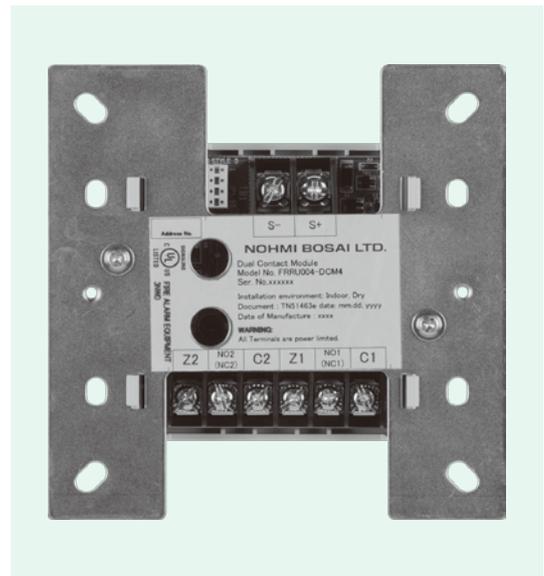


FRRU004-DCM4

DUAL CONTACT MODULE

Features

- One simple LED for status indication
- NFPA Class A (Styles 6 & 7) and Class B (Style 4) for SLC
- NFPA Class A (Style D) and Class B (Style B) for IDC
- Electronic address setting
- Downsized unit
- Easy installation



Description

The Dual Contact Module (FRRU004-DCM4) is used to supervise multiple contact points with unique addresses from a single device. The FRRU004-DCM4 may be configured to monitor a normally open or normally closed contact. In addition, the FRRU004-DCM4 may be configured as a single contact utilizing Class A wiring methods. In case of one contact supervising, wiring shall comply with the Class A (Style D) wiring. In case of two contacts supervising, wiring shall comply with the Class B (Style B) wiring.

The FRRU004-DCM4 is fully supervised if wired in accordance with the wiring diagrams on next page.

FRRU004-DCM4 employs one red LED to indicate the status. In normal condition, the LED flashes. When the contact is activated, the LED will turn on constantly. In case of trouble, the LED will turn off. In case of two contacts supervising, if the conditions of two contacts are different each other, the LED shall activate with higher priority condition. The highest priority of contact condition is activated condition of contact, the middle priority is open circuit, and the lowest priority is normal condition.

Ordering Information

Model no. FRRU004-DCM4

Specifications

No.	Item	Specification	
		In case of one contact supervising	In case of two contacts supervising
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	IDC input circuit wiring style	NFPA Class A (Style D)	NFPA Class B (Style B)
5	End-of-line resistor for IDC	N/A	5.1kΩ, 1/2W
6	Maximum wiring resistance of IDC	100Ω	
7	Maximum wiring capacitance of IDC	1µF	
8	Operating temperature range	0°C to 49°C (32°F to 120°F)	
9	Operating humidity range	0 to 93% (non-condensing)	
10	Address per module	1 Address	2 Addresses
11	Dimensions	106mm (4.17 inches) (H) × 106mm (4.17 inches) (W) × 29mm (1.14 inch) (D)	
12	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	

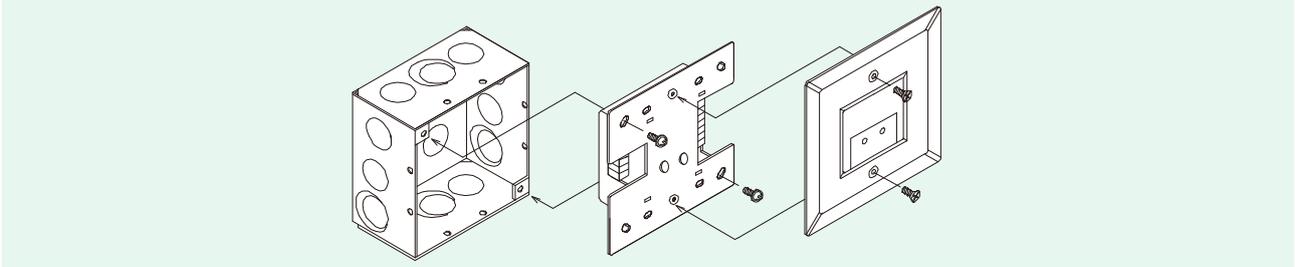
Setting the Address

Each addressable module, smoke detector, heat detector and combination detector must have the address set prior connecting the device to the Signaling Line Circuit (SLC) loop. The address is set using the hand held device programmer.

A dedicated address number is configured per FRRU004-DCM4 module prior to connecting the module to SLC loop. When FRRU004-DCM4 is used as two contacts supervising, two addresses are assigned. When the first address number is assigned by address setting unit, the second address number shall be assigned automatically with adding one (1) to first address number. For example, if the first address number is assigned as "n", the second address number shall be assigned as "n+1" automatically.

Installation

Figure 1: Installation into the compatible electrical box



Wiring Diagram

Figure 2: Wiring diagram in case of one contact supervising

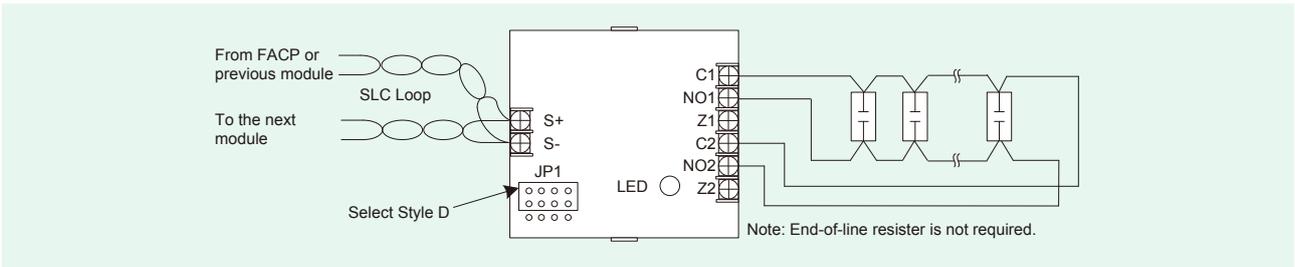


Figure 3: Wiring diagram in case of two contacts supervising (Normally-open contact)

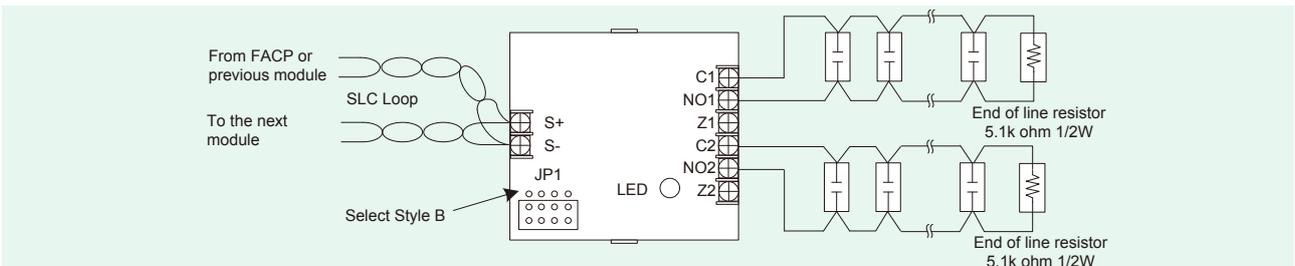
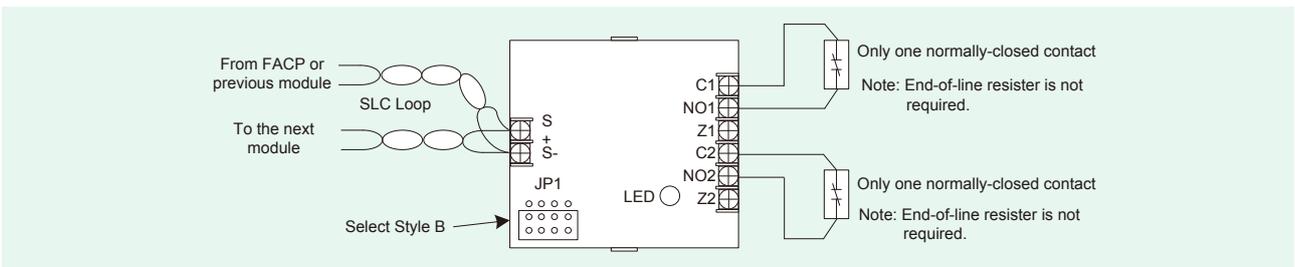


Figure 4: Wiring diagram in case of two contacts supervising (Normally-closed contact) (Not recognized as NFPA Initiating Device Circuit)



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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