NAPCO | COMMERCIAL
FIREWOLF

Addressable Contact Monitoring Modules
FWC-FSLC-EZM1
FWC-FSLC-EZM2

FEATURES:

- UL 864 9th Edition Listed

- Single input contact monitor

- Fast, reliable contact monitoring

- 127 devices can be used per SLC loop

- Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts

- Operates on Class A or Class B SLC loop

DESCRIPTION:

The Napco **FWC-FSLC-EZM1** Fast Response Contact Module and **FWC-FSLC-EZM2** Dual Input Monitor Module are designed to be used with pull stations, water flow switches, and other applications requiring the monitoring of dry contact devices. The interrupt driven communications protocol combines maximum communication reliability and fast response to emergency conditions. The FWC-FSLC-EZM1 and FWC-FSLC-EZM2 contact monitoring modules do not require a separate 24VDC power source.

Each addressable contact monitoring module is programmed with its own unique Signaling Line Circuit (SLC) loop address. The FSLC-EZM2 utilizes only a single address for two (2) distinctive initiating points. The device address is electrically programmable and stored in the onboard EEPROM. Up to 127 devices can be placed on the Napco SLC loop. The module supervises the wiring to the contact with an End Of Line (EOL) resistor. It can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts. If a fault condition occurs in the wiring, the module sends a trouble status signal to the fire alarm control panel. When a change of status (contact changes state) is sensed by the FWC-FSLC-EZM1 or FWC-FSLC-EZM2 it sends an interrupt to the control panel indicating that an alarm has occurred.

LISTINGS:

- UL864 9th Edition: Commercial Fire
- NFPA 72 National Fire Alarm Code
- CSFM: California State Fire Marshall
- NYCFD: NYC Fire Department

SPECIFICATION:

FWC-FSLC-EZM1
The contractor shall furnish and install where indicated on the plans, addressable contact monitoring modules Napco FWC-FSLC-EZM1. The modules shall be UL Listed and compatible with the Napco communication protocol supporting control panel. The device address shall be electrically programmable and stored in the EEPROM. The FWC-FSLC-EZM1 shall fit inside a single gang electrical back box.

FWC-FSLC-EZM2
The FWC-FSLC-EZM2 addressable SLC two zone conventional input module provides two independent contact monitoring circuits while only utilizing one address on the SLC loop. Designed to be used with pull stations, water flow switches, and other applications requiring the monitoring of dry contact alarm initiating devices. The FWC-FSLC-EZM2 shall fit inside a single-gang electrical back box.
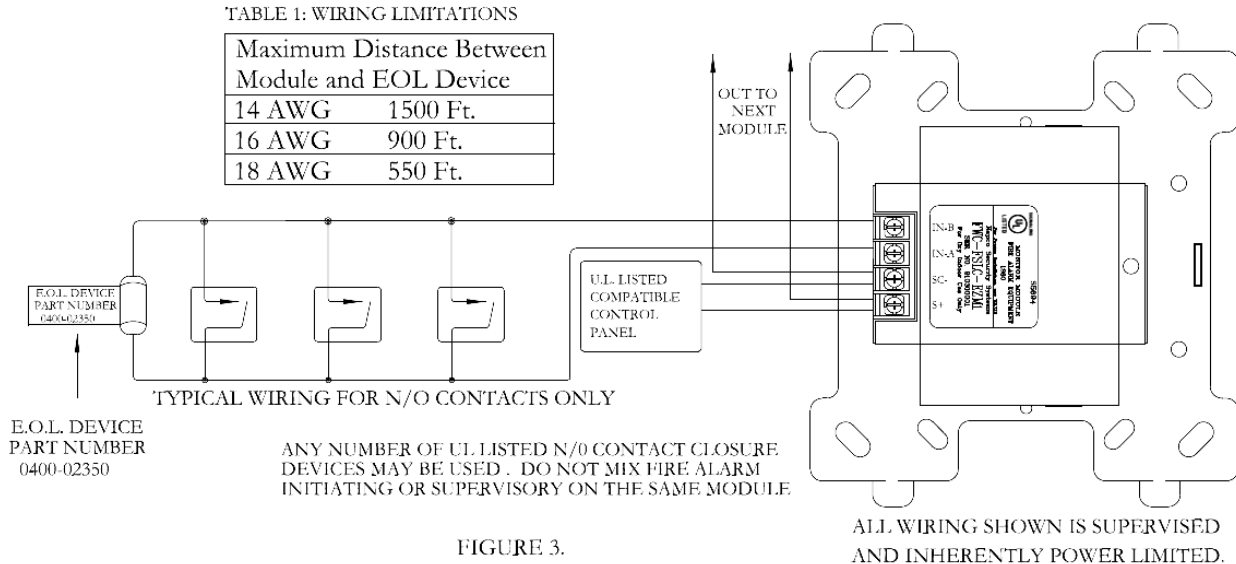
	FWC-FSLC-EZM1
Maximum Applied Voltage	S, SC: 41 VDC
Nominal Supply Voltage	S, SC: 33 VDC
Average Current Consumption	550µA (Typical)
Maximum Current Consumption	Surge Current 30mA (in 5 ms.) Alarm and response: 30mA (in 20 ms.) No Alarm and no response: 660µA
End of Line Device for Input	Napco part # 0400-02350 10KΩ
Visual Indicator	Bi-Color LED (green/red)
Maximum Relative Humidity	Up to 90% RH Non-Condensing
Dimensions	2.8"W x 0.7"H x 0.7"D
Weight	Approx 3 oz.
Operating Temperature	32°F to 120°F (0°C to 49°C) Indoor Use Only

	FWC-FSLC-EZM2
SLC Applied Voltage	Rated Range 25.3 - 39VDC
SLC Current Consumption	Max 720µA; Nominal 600µA
IDC Circuit Rating	3.2VDC, 100µA
End of Line Device for Input	Napco part # 0400-02370 22KΩ
Visual Indicator	Bi-Color LED (green/red)
Maximum Relative Humidity	Up to 90% RH Non-Condensing
Dimensions	4.2"W x 4.7"H x .85"D
Weight	Approx 3 oz.
Storage Temperature	-22°F to 70°F (-30°C to 158°C)
Operating Temperature	32°F to 120°F (0°C to 49°C) Indoor Use Only

INITIATING DEVICE CIRCUIT (IDC) - NFPA STYLE B (FOR WIRING LENGTH REFER TO TABLE 1)

TABLE 1: WIRING LIMITATIONS

Maximum Distance Between Module and EOL Device	
14 AWG	1500 Ft.
16 AWG	900 Ft.
18 AWG	550 Ft.

OUT TO NEXT MODULE

TYPICAL WIRING FOR N/O CONTACTS ONLY

E.O.L. DEVICE PART NUMBER 0400-02350

E.O.L. DEVICE PART NUMBER 0400-02350

ANY NUMBER OF UL LISTED N/0 CONTACT CLOSURE DEVICES MAY BE USED . DO NOT MIX FIRE ALARM INITIATING OR SUPERVISORY ON THE SAME MODULE

U.L. LISTED COMPATIBLE CONTROL PANEL

FIGURE 3.

TYPICAL WIRING DIAGRAM EXAMPLE, CONNECTED TO A COMPATIBLE LISTED CONTROL PANEL

ALL WIRING SHOWN IS SUPERVISED AND INHERENTLY POWER LIMITED.

INITIATING DEVICE CIRCUIT (IDC) - NFPA STYLE B

E.O.L. DEVICE 22K PART NUMBER 0400-02370

TYPICAL WIRING FOR N/O CONTACTS ONLY

E.O.L. DEVICE 22K PART NUMBER 0400-02370

ANY NUMBER OF UL LISTED N/O CONTACT CLOSURE DEVICES MAY BE USED .

Note: SLC circuit is in reference to S, and SC.

Note: Only the same size wire from 12 to 22 AWG may be connected to terminal block TB1 when more than one conductor is being connected under each terminal. Maximum of 2 conductors per terminal..

Napco Security Systems, Inc.
FWC-FSLC-EZM2
Dual Input Monitor Module
SER. NO. XXXXXXXXX

Input A
Input B

S +
SC −

For Dry Indoor Use Only
For Proper Installation, see WI-1712

SIGNALING S5694
UL LISTED
Dual Input Monitor Module
FIRE ALARM EQUIPMENT
1880

TB2

TB1

OUT TO NEXT MODULE

U.L. LISTED COMPATIBLE FIRE CONTROL PANEL OR SLC MODULE

Wiring Limitations:
Maximum line impedance between input and initiating devices: 3.50Ω

FIGURE 3.
TYPICAL WIRING DIAGRAM

TB1 SHOWN IS SUPERVISED AND INHERENTLY POWER LIMITED.