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55-061 Dual Monitor Module

SPECIFICATIONS

Normal Operating Voltage:	15 to 30 VDC
Average Operating Current:	600 µA (LED flashing, 30 VDC, continuous broadcasts)
Maximum Alarm Current:	2.72mA
IDC Voltage:	5.4 VDC max
Maximum Red LED Current Drawn:	1.6 mA
Maximum IDC Wiring Resistance:	100 Ω
Maximum Short Circuit Current:	370µA (for each IDC Loop)
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10% to 93% RH Non-condensing
Dimensions:	4.17″ H x 4.26″ W x 1.22″ D; (106 mm H × 108 mm W × 31 mm D)
Accessories:	39 kΩ End of Line Resistor (2 included)
	Wall cover plate (included)
	SMB500 Surface Mount Electrical Box
	14 kΩ Alarm Resistor (not included)

BEFORE INSTALLING

This information is included as a quick reference installation guide. Refer to the appropriate control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service.

NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

Dual Monitor Module, Model 55-061, is used to monitor two sets of independent normally open contacts of auxiliary devices. In addition to monitoring the contact, the device will monitor the wiring to the device for open circuits via an end of line resistor. The module also has on-board short circuit isolators to prevent shorts on the signaling line circuit from disabling more than one device on the intelligent loop. The IDC circuits of this device are Class B only.

COMPATIBILITY REQUIREMENTS

To ensure proper operation, this module shall be connected to a listed compatible control panel.

MOUNTING

The module mounts directly to 4-inch square electrical boxes. The box must have a minimum depth of $2^{1}/_{8}$ inches. Modules must be mounted with the arrow facing upward for proper operation of the IR programming tool. Surface mounted electrical boxes (SMB500) are available from Fike.

WIRING

NOTE: ALL WIRING MUST CONFORM TO APPLICABLE LOCAL CODES, ORDINANCES, AND REGULATIONS.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.
2. For new installations use the enclosed 39 kΩ EOL resistor. For retrofit applications where the existing 47 kΩ cannot be easily replaced, it may be left in place without loss of performance.
3. Set the address on the module per job drawings using the IR configuration tool (model no. EA-CT).
4. Secure module to electrical box (supplied by installer).

NOTE: All references to power limited represent "Power Limited (Class 2)".

AUTO ADDRESSING

Eclipse Series devices are capable of supporting auto addressing, if the fire alarm control panel is designed to do so. In auto addressing, the control panel, through the use of each device's on-board isolators, can automatically assign device addresses. In order to control which devices are addressed first in wiring configurations with branches, a branch marker can be set at a particular device. A branch marker is an electronic value from 0 to 255 stored in the device memory. The branch markers are set with the IR configuration tool, EA-CT.

TERMINAL DEFINITIONS

Terminal	Definition	Terminal	Definition
1	(+) SLC in/out	7	(–) IDC Class B Channel 0
2	(–) SLC in/out	8	(+) IDC Class B Channel 0
3	(+) SLC in/out	9	(–) IDC Class B Channel 1
4	(–) SLC in/out	10	(+) IDC Class B Channel 1

FIGURE 1. DUAL MONITOR MODULE:

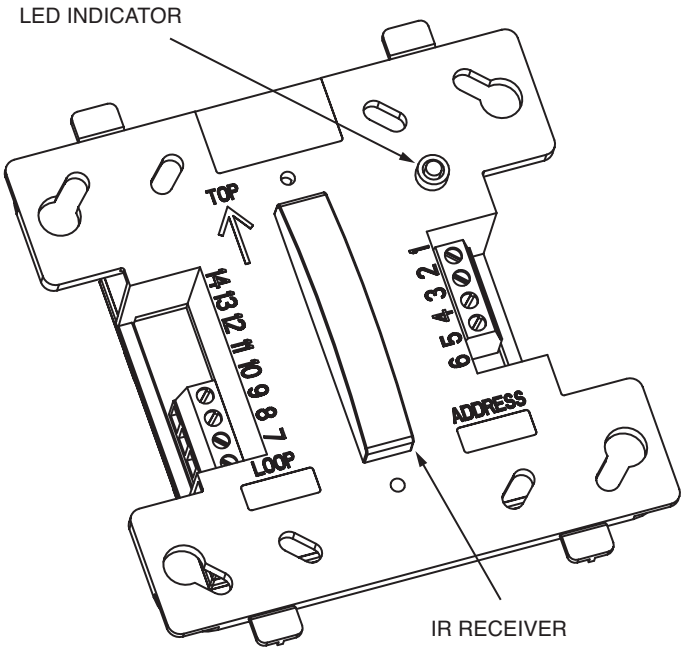

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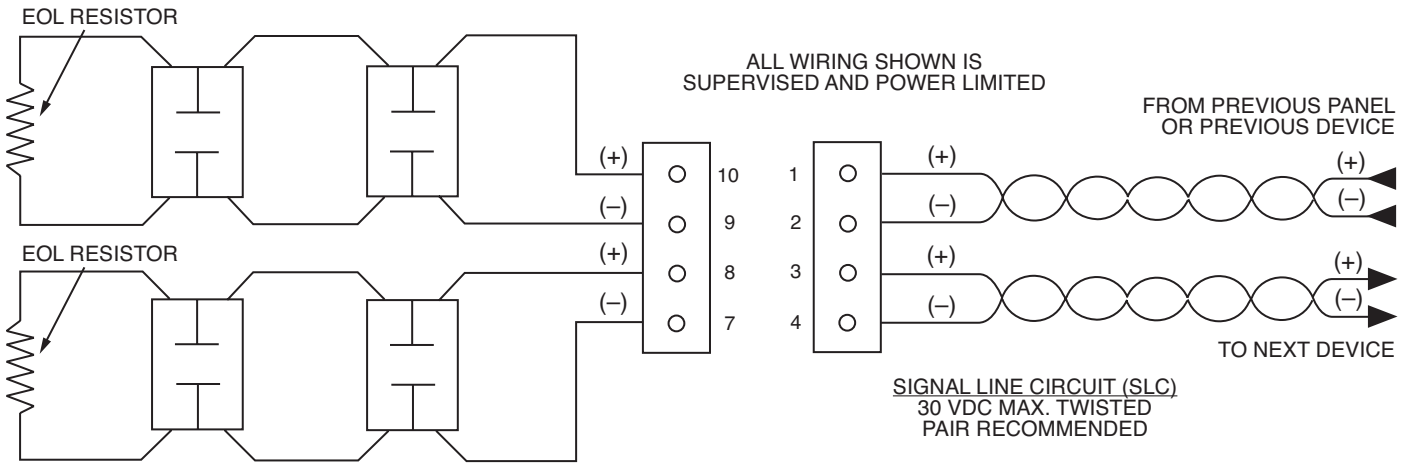
FIGURE 2. TYPICAL 2-WIRE IDC CONFIGURATION, NFPA CLASS B/STYLE B:



ANY NUMBER OF UL CONTACT CLOSURE DEVICES MAY BE USED. DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, OR SECURITY DEVICES ON THE SAME MODULE. INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER'S INSTRUCTIONS.

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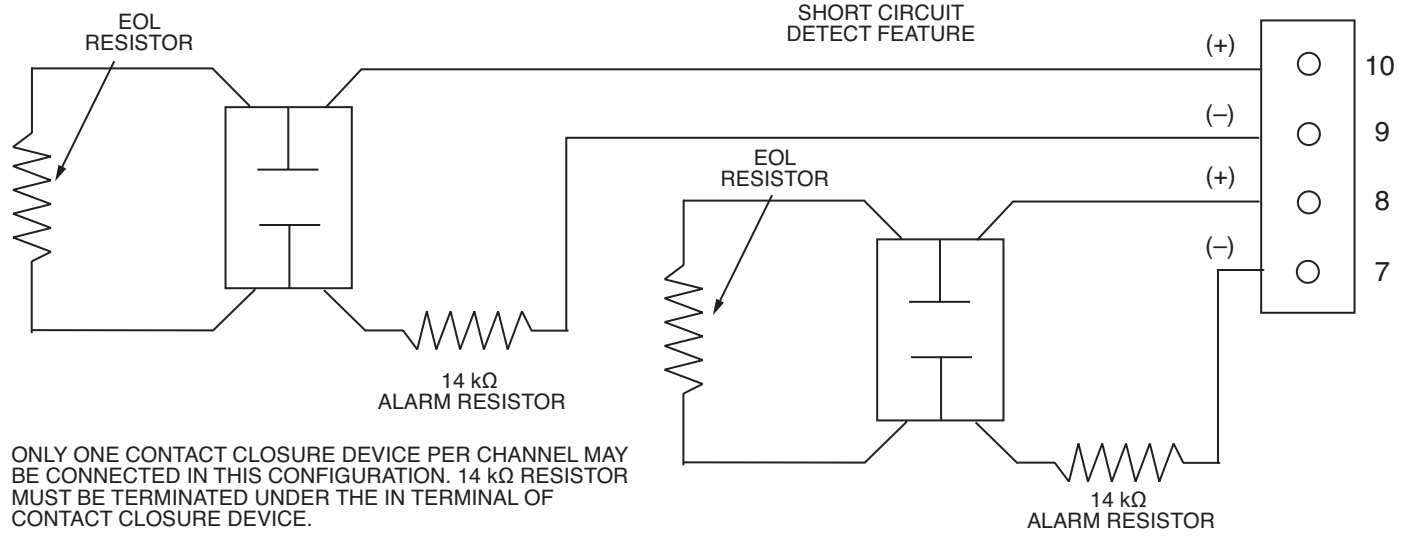
FIGURE 2B. TYPICAL 2-WIRE IDC CONFIGURATION, NFPA CLASS B/STYLE C:



ONLY ONE CONTACT CLOSURE DEVICE PER CHANNEL MAY BE CONNECTED IN THIS CONFIGURATION. 14 kΩ RESISTOR MUST BE TERMINATED UNDER THE IN TERMINAL OF CONTACT CLOSURE DEVICE.

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FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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