704 S. 10th Street
Blue Springs, MO 64015
Phone: 816.229.3405; Fax: 816.228.9277

55-053 Releasing Control Module

SPECIFICATIONS

SLC	
Normal Operating Voltage:	24 VDC Nominal
Standby Current:	450 µA maximum average (continuous broadcasts)
Activation Current:	6.0 mA (red LED on)
External Supply	
Normal Operating Voltage:	24 VDC Nominal
Standby Current:	6.4 mA
Activation Current:	10 mA
Agent Releasing Module	
Supervisory Loop Voltage:	20 to 28 V
Supervisory Loop Current (Normal):	13 mA
Solenoid	
Supervisory Loop Voltage:	3.3 V
Supervisory Loop Current (Normal):	30 mA
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10% to 93% Relative Humidity, Non-condensing
Dimensions:	4.17″ H × 4.26″ W × 1.22″ D; (106 mm H × 108 mm W × 31 mm D)
Accessories:	2.7 kΩ End of Line Resistor A2625-000 (included); Wall cover plate (included); SMB500 Surface Mount Electrical Box

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.

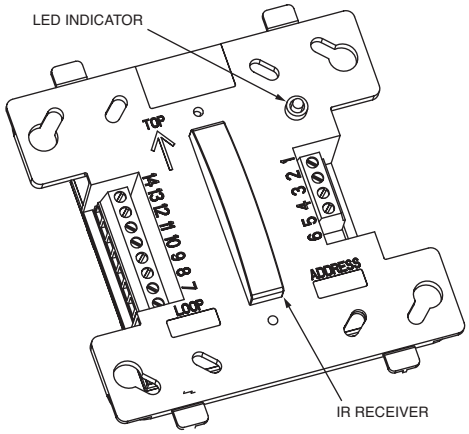
NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

Releasing Control Module, Model 55–053, is a device programmed to supervise either an agent release module(s) or a solenoid. **This module can only be used for one type of application at one time** (either supervising up to six agent release modules or one solenoid, but never both simultaneously).

The control module monitors the external power input for loss of power. The module also has on-board short circuit isolators to prevent shorts on the signaling line circuit from disabling all devices on the intelligent loop.

FIGURE 1A. SUPERVISED CONTROL MODULE:



C0164-00

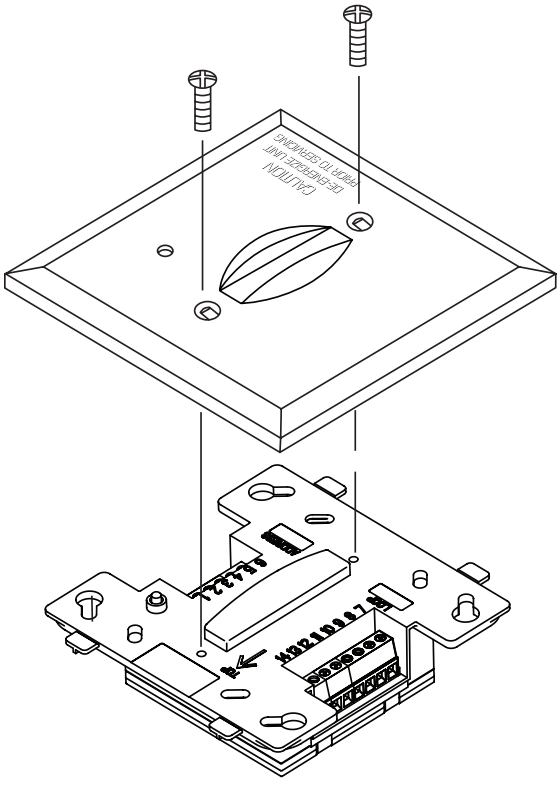
COMPATIBILITY REQUIREMENTS

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 configuration tool (model no. EA-CT). Surface mounted electrical boxes (SMB500) are available from Fike.

FIGURE 1B. MODULE MOUNTING:



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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 Agent Release Module installations use the enclosed 2.7kΩ EOL resistor. (Do not use for solenoid.)
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).

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.

TESTING

The following resistance values can be used to test the module after installation:

Short Circuit: < 10Ω
Open Circuit: > 1MΩ
Ground Fault: < 50Ω

TERMINAL DEFINITIONS

T1	(+) SLC in/out	T9	(–) external power line in/out
T2	(–) SLC in/out	T10	(+) external power line in/out
T3	(+) SLC in/out	T11	ARM Supervisory (+)/Activation (–)
T4	(–) SLC in/out	T12	ARM Supervisory (–)/Activation (+)
T7	(–) ext. power line in/out	T13	Solenoid (–)
T8	(+) ext. power line in/out	T14	Solenoid (+)

FIGURE 2. TYPICAL CLASS B, AGENT RELEASE MODULE (ARM) CONFIGURATION:

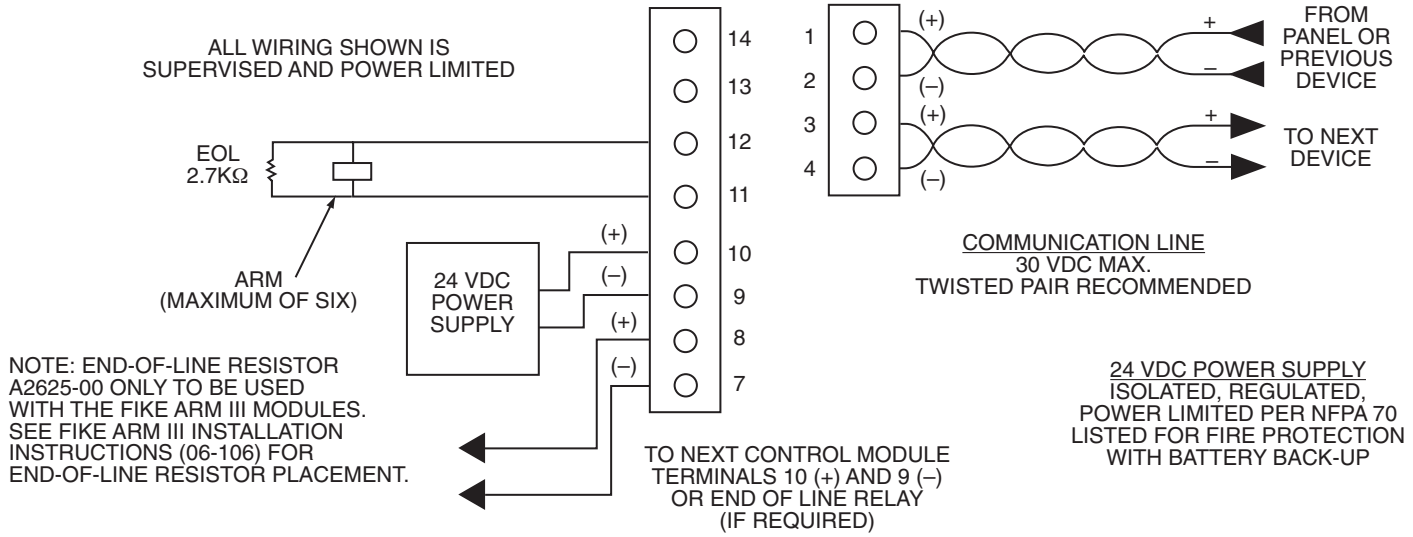

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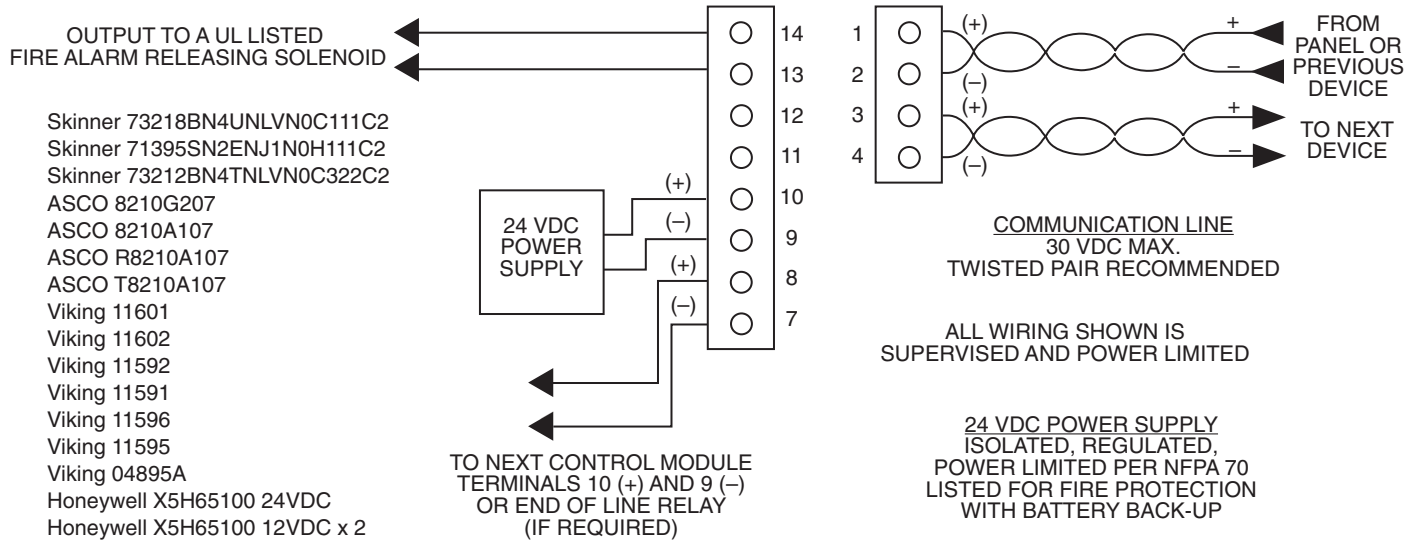
FIGURE 3. TYPICAL CLASS B, SOLENOID CONFIGURATION:



C0107-03

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.