Model SD505-ARM
Relay Module

Place relay applications anywhere on the IntelliKnight loop with the SD505-ARM Relay Module.

The SD505-ARM Relay Module is an addressable device that adds great flexibility to the IntelliKnight system. Providing two Form C contacts rated at 2A at 30 VDC or .5A at 120 VAC, the SD505-ARM allows you to control a wide variety of normally open and normally closed applications, including elevator recall, door closing, fan operation, and auxiliary notification. And, because the relay module is addressable, these applications can be located at any point in the signaling line circuit.

Like other IntelliKnight SLC devices, the SD505-ARM is compact for adaptability and pleasing aesthetics. Combine this with the features you've come to expect from Silent Knight fire protection devices—easy installation and stable operation—and it adds up to a flexible solution for all your fire protection needs.
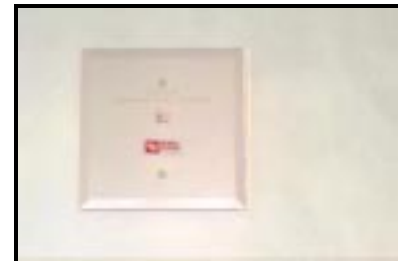
Model SD505-ARM Relay Module

The SD505-ARM provides two Form C contacts rated at 2A at 30 VDC or .5A at 120 VAC. These contacts can be used for virtually any normally open or normally closed application.

Operation

Each relay module is programmed with a unique SLC loop address. When an event that controls the relay module occurs, the relay is triggered by the IntelliKnight panel.

Features

- Two sets of Form C contacts.

- Contacts are rated at 2A @ 30 VDC or .5A @ 120 VAC.

- Up to 127 relays can be used on each SLC loop.

- Relay programming is completely flexible—can be mapped to zone conditions.

- Polling LED visible through cover plate.

- UL® listed, complies with NFPA 72.

Model SD505-ARM

Specifications

Contact Rating:	Form C
	2A @ 30 VDC .5A @ 120 VAC
Standby Current:	.55 mA
Alarm Current:	.55 mA
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	4-square

SILENT KNIGHT®

Model SD505-ARM
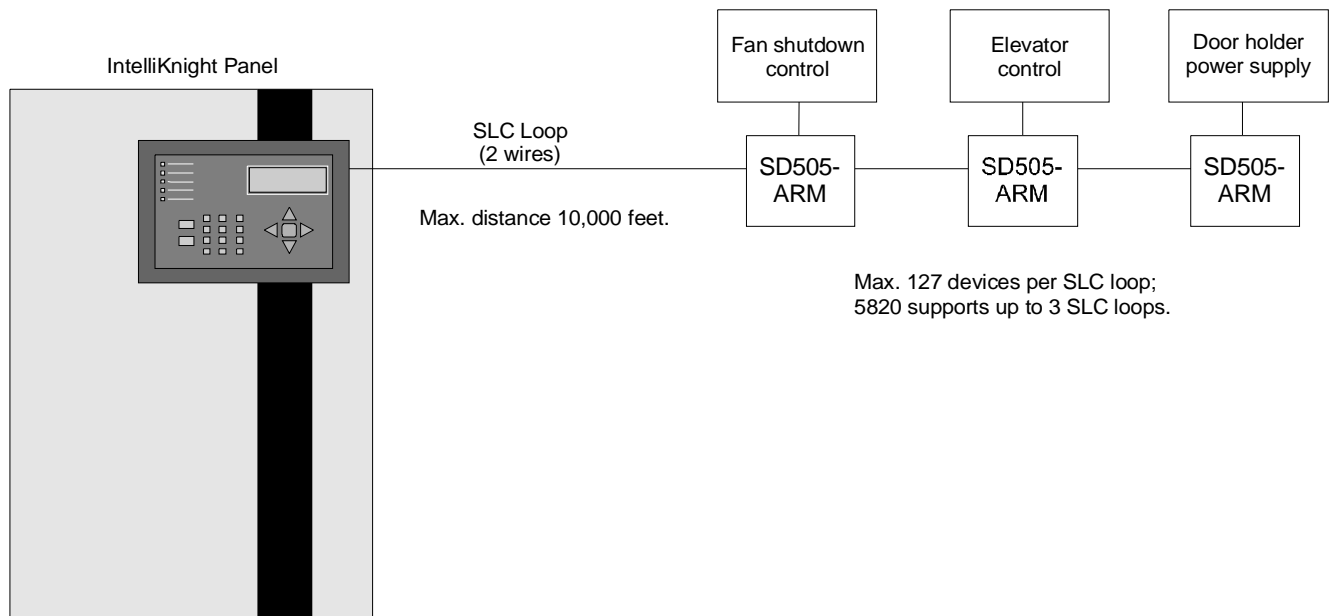# Relay Module

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable relay modules Silent Knight SD505-ARM. The modules shall be UL listed compatible with Silent Knight's IntelliKnight 5820 fire panel.

The relay module must provide two Form C dry contacts rated at 2.0 amps at 30 VDC and 0.5 amps at 20 VAC.

The relay module must be suitable for mounting in a standard 4-square electrical box and must include a plastic cover plate. The relay module board must provide an LED that is visible from the outside of the cover plate.

The relay must be fully programmable for such applications as are required by the installation.

MODEL SD505-ARM BLOCK DIAGRAM

IntelliKnight Panel

SLC Loop
(2 wires)

Max. distance 10,000 feet.

Fan shutdown control

Elevator control

Door holder power supply

SD505-ARM

SD505-ARM

SD505-ARM

Max. 127 devices per SLC loop;
5820 supports up to 3 SLC loops.

SILENT KNIGHT

MADE IN AMERICA

Model 5860
Remote Annunciator

Bring the power to control IntelliKnight to every area within your facility.

Now you can operate and program your IntelliKnight system from up to 8 locations throughout your facility. The Model 5860 Remote Annunciator provides the same advanced, easy-to-use interface found on the IntelliKnight panel's built-in annunciator. The 80-character display and ergonomically designed keypad allow for simple and error-free system operation. All operations—including reset, silence, detector status checking, fire drill, and programming—are identical.

Access to the system is through a firefighter's key or an access code. For security, a special installation code is needed for programming functions.

The 5860 connects to the IntelliKnight panel via the RS-485 system bus. Depending on wiring methods used, wire runs can be up to 6000 feet from the panel.

Model 5860
Remote Annunciator

The 5860 is designed to look and operate exactly the same as the built-in annunciator. Features include an 80-character backlit LCD providing easy-to-understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, Reset and Silence.

In addition to status messages displayed on the LCD, five LEDs for alarm, supervisory, trouble, silence, and AC power indicate status.

The annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush-mounted. A trim ring kit is available for surface mounting.

Operation

When the system is normal and receiving AC power, the Power LED is lit and all other LEDs are off. Other LEDs turn on as the conditions occur.

Users identify themselves to the control panel by entering a code on the annunciator or by turning the firefighter's key. When a user presses a button, the annunciator piezo beeps and the LCD prompts the user to enter a code or other relevant information.

Multiple users can work at different annunciators simultaneously without affecting each other.

Features

- 80-character display

- Tactile / audible feedback

- Accepts user codes or firefighter's key.

- RS-485 interface to panel

- Can be flush- or surface-mounted. Trim ring available for surface-mounting.

- Operation and appearance identical to on-board annunciator

- Supports simultaneous use by multiple users

- UL Listed, complies with NFPA 72

SILENT KNIGHT

5860 Remote Annunciator

Specifications

Operating Voltage:	24 VDC
Standby Current:	20 mA
Alarm Current:	25 mA
Max. per system	8
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	Surface or flush
Wiring distance from IntelliKnight panel	Up to 6,000 feet (depending on wiring method)
Dimensions:	Height: 7-3/8" Width: 9-1/8" Depth: 1-1/2"
Colors:	Lt. gray (5860) Red (5860R)

Model 5860
Remote Annunciator
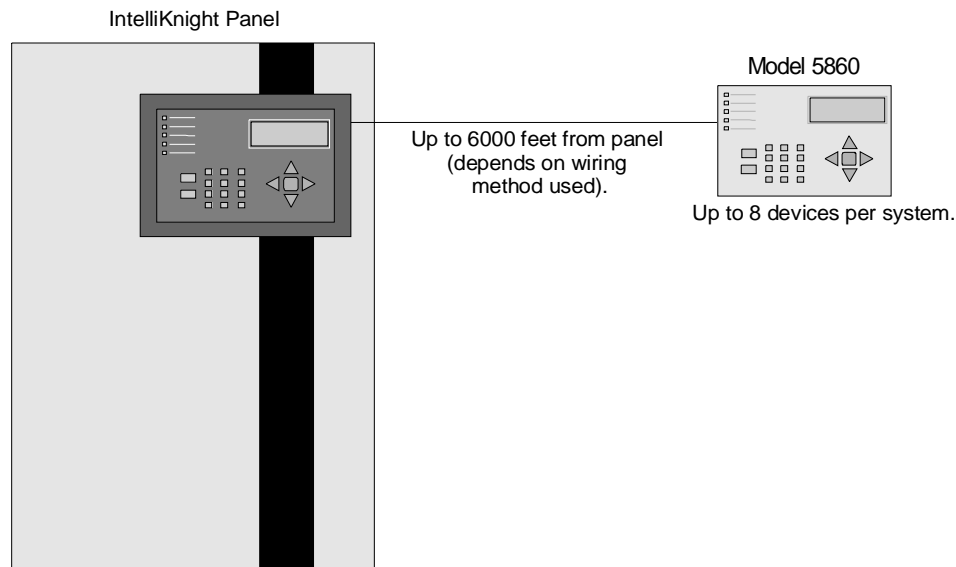
Engineering Specifications

The main control must have a built-in annunciator and must support up to eight remote annunciators. Remote annunciators shall have the same control and display layout so as to match the appearance of the built-in annunciator. Remote annunciators shall be available in two colors, red or light gray.

Remote annunciators shall have identical functionality and operation as the built-in annunciator. All annunciators must have an 80 character LCD display and must feature five LEDs for: General Alarm; Supervisory, System Trouble, System Silence, and System Power.

All controls and programming keys are silicone mechanical type with tactile and audible feedback. Keys have a travel of .040 inches. No membrane style buttons will be permissible.

The annunciators must be able to silence and reset alarms through the use of a code entered on the annunciator keypad or by using a firefighter's key. The annunciator must have two levels of user codes that will limit the operating system programming to authorized individuals. The control panel must allow all annunciators to accommodate multiple user input simultaneously.

5860 BLOCK DIAGRAM

IntelliKnight Panel

Model 5860

Up to 6000 feet from panel (depends on wiring method used).

Up to 8 devices per system.

SILENT KNIGHT