SK-Monitor Module

SPECIFICATIONS

- Normal Operating Voltage: 15 to 32 VDC
- Maximum Current Draw: 5.0 mA (LED on)
- Average Operating Current: 375µA (group poll), 350 µA (direct poll), 600 µAmps (communication, IDC shorted)
- EOL Resistance: 47K Ohms
- Max. IDC wiring resistance: 1,500 Ohms
- Maximum IDC Voltage: 11 Volts
- Maximum IDC Current: 450µA
- Temperature Range: 32°F to 120°F (0°C to 49°C)
- Humidity: 10% to 93% Non-condensing
- Dimensions: 4½” H x 4” W x 1¼” D (Mounts to a 4” square by 2½” deep box.)
- Accessories: SMB500 Electrical Box

BEFORE INSTALLING

This information is included as a quick reference installation guide. Refer to the 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. Disconnect power to the control panel before installing the modules.

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

GENERAL DESCRIPTION

The SK-Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a Class A or Class B fault tolerant initiating device circuit (IDC) for normally open contact fire alarm and supervisory devices, or either normally open or normally closed security devices. The module has a panel controlled LED indicator.

COMPATIBILITY REQUIREMENTS

To ensure proper operation, this module shall be connected to a compatible Silent Knight system control panel (list available from Silent Knight).

WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations. This module is intended for power limited wiring only.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.
2. Set the address on the module per job drawings.
3. Secure module to electrical box (supplied by installer), as shown in Figure 2.

MOUNTING

The SK-Monitor mounts directly to 4-inch square electrical boxes (see Figure 2). The box must have a minimum depth of 2½ inches. Surface mounted electrical boxes (SMB500) are available from Silent Knight.
**FIGURE 3. TYPICAL 2-WIRE INITIATING CIRCUIT CONFIGURATION, NFPA STYLE B OR SECURITY SYSTEMS:**

NOTE: For UL Listed security installations, the SK-Monitor must be mounted within the control panel enclosure.

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

47K EOL RESISTOR
ELR-47K

INITIATING DEVICE CIRCUIT (IDC) - NFPA STYLE B
POWER LIMITED: 450µA MAX. @ 11 VDC MAX

INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER’S INSTALLATION INSTRUCTIONS.

**FIGURE 4. TYPICAL 4-WIRE FAULT TOLERANT INITIATING CIRCUIT CONFIGURATION, NFPA STYLE D:**

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EOL RESISTOR IS INTERNAL AT TERMINALS 8 & 9

INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER’S INSTALLATION INSTRUCTIONS.

SIGNAL LINE CIRCUIT (SLC)
32 VDC MAX.
TWISTED PAIR IS RECOMMENDED

ALL WIRING SHOWN IS SUPERVISED AND POWER LIMITED