

SILENT KNIGHT SK-Monitor

SILENT KNIGHT SK-Monitor Input Monitor Module

User Manual

1. PRODUCT OVERVIEW

The SILENT KNIGHT SK-Monitor Input Monitor Module is an addressable device designed for integration with Honeywell Silent Knight Series fire alarm control panels. This module operates on intelligent two-wire SLC (Signaling Line Circuit) loops. Its unique address is configured using integrated rotary switches, ensuring precise identification within the fire alarm system.

The module supports both Class A and Class B supervised wiring configurations, enabling reliable monitoring of connected load devices. It can also supervise conventional four-wire smoke detectors, providing feedback on both alarm and trouble conditions to the control panel.



Figure 1: SILENT KNIGHT SK-Monitor Input Monitor Module. This image displays the compact design of the module, highlighting its terminals and rotary switches for addressing.

2. KEY FEATURES

- **Single-input contact monitoring:** Efficiently monitors a single input contact.
- **Class A and Class B compatibility:** Supports both supervised wiring configurations for versatile

installation.

- **Fully supervised operation:** Ensures continuous reliability and system integrity.
- **Status controlled by fire alarm panel:** Direct communication and control from the main fire alarm panel.
- **LED indicator:** Provides visual status feedback; flashes green for normal operation, solid red during an alarm condition.
- **SEMS screws:** Facilitates simplified and secure wiring connections.
- **Rotary addressing:** Allows for quick and straightforward address setup in the field.

3. SETUP AND INSTALLATION

3.1 Addressing the Module

1. Locate the integrated rotary switches on the module.
2. Using a small screwdriver, set the desired unique address for the module. Refer to your fire alarm control panel's documentation for available address ranges and assignment procedures.
3. Ensure the address is correctly set and matches the system's programming.

3.2 Wiring Connections

The SK-Monitor module utilizes SEMS screws for wiring connections. Ensure all power to the fire alarm control panel and SLC loop is disconnected before making any connections.

- **SLC Loop Connection:** Connect the two-wire SLC loop to the designated terminals on the module. Observe polarity.
- **Input Device Connection:** Connect the supervised input device (e.g., contact closure, four-wire smoke detector) to the module's input terminals.
- **Class A vs. Class B:** For Class A wiring, ensure the SLC loop returns to the control panel. For Class B, the loop terminates at the last device. Consult local codes and system requirements for proper configuration.
- **Four-Wire Smoke Detectors:** When supervising four-wire smoke detectors, ensure the detector's power supply is correctly wired and that its alarm and trouble outputs are connected to the module's input.

After all connections are made, secure the module within its intended enclosure. Restore power to the fire alarm control panel and verify module operation.

4. OPERATING INSTRUCTIONS

Once installed and powered, the SK-Monitor module operates under the control of the fire alarm control panel. Its primary function is to monitor the status of the connected input device and report changes to the panel.

4.1 LED Indicator Status

- **Flashing Green LED:** Indicates normal operation. The module is communicating correctly with the fire alarm control panel, and the monitored input is in its normal state.
- **Solid Red LED:** Indicates an alarm condition. The monitored input device has activated (e.g., smoke detector in alarm, contact closure activated), and the module has reported this to the control panel.

Any other LED behavior or lack of illumination may indicate a fault or wiring issue.

5. MAINTENANCE

The SK-Monitor module is designed for reliable, low-maintenance operation. Regular maintenance should focus on the overall fire alarm system and the connected input devices.

- **System Testing:** Conduct periodic tests of the entire fire alarm system, including the SK-Monitor module and its connected devices, as per local codes and manufacturer recommendations.
- **Visual Inspection:** Periodically inspect the module for any visible damage, loose connections, or environmental factors that could affect its performance.
- **Cleaning:** If necessary, gently clean the module's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Any firmware updates for the fire alarm control panel may require verification of module compatibility. Consult your system integrator or SILENT KNIGHT technical support.

6. TROUBLESHOOTING

If the SK-Monitor module is not functioning as expected, consider the following troubleshooting steps:

Symptom	Possible Cause	Action
Module LED is off	No power from SLC loop; wiring error; module fault	Check SLC loop wiring and power; verify module address; replace module if faulty.
Module LED is solid green (not flashing)	Module not communicating with panel; address conflict	Verify module address is unique; check SLC loop integrity; consult panel manual.
Panel reports trouble for module	Wiring fault on input device; device fault; module fault	Inspect input device wiring; test input device; replace module if necessary.
Module LED is solid red, but no alarm	Input device stuck in alarm; wiring short on input	Check input device status; inspect input wiring for shorts; reset panel.

For persistent issues, contact qualified fire alarm technicians or SILENT KNIGHT technical support.

7. SPECIFICATIONS

- **Brand:** SILENT KNIGHT
- **Model:** SK-Monitor
- **ASIN:** B0892X73FD
- **GTIN/UPC:** 767571884377
- **Compatibility:** Honeywell Silent Knight Series fire alarm control panels
- **Wiring Configurations:** Class A and Class B supervised
- **Input Monitoring:** Single-input contact monitoring, conventional four-wire smoke detectors
- **Addressing:** Rotary switches
- **Indicator:** LED (Flashing Green: Normal, Solid Red: Alarm)
- **Manufacturer:** SILENT KNIGHT

8. WARRANTY AND SUPPORT

For specific warranty information regarding the SILENT KNIGHT SK-Monitor Input Monitor Module, please refer to the documentation provided with your purchase or contact your authorized SILENT KNIGHT distributor.

SILENT KNIGHT is committed to providing quality products and support. For technical assistance, product inquiries, or customer service, please reach out to your local SILENT KNIGHT representative or visit the official SILENT KNIGHT website for contact information.