



SILENT KNIGHT

INSTALLATION INSTRUCTION FOR SILENT KNIGHT SD505 ANALOG SMOKE SENSORS

These instructions apply to all Silent Knight SD-505 (Digital Communication Protocol) analog sensors and bases.

These units must be installed and maintained in accordance with applicable N.F.P.A. standards, local codes and any authority having jurisdiction. Please refer to N.F.P.A. 72 Standard for Automatic Fire Detectors for installation guidelines and testing Procedures. Also refer to Technical Bulletin HA-96 for testing, cleaning, and maintenance.

Smoke detectors should be tested upon completion of installation and at least semiannually there-

BASE BOX MOUNTING		
3"-Ø	4"-Ø	4"-S
YES	YES	YES

after, in accordance with N.F.P.A. 72, section on "Inspections, Tests and Maintenance".

To install the detector insert the detector into the base. Turn the detector clockwise until it stops. Tighten tamper screw.

Use "3M" Weatherban #606 non-flammable sealing compound to seal field wiring conduit openings in the mounting back box. Compliance with this request may reduce the occurrence of the "STACK EFFECT".

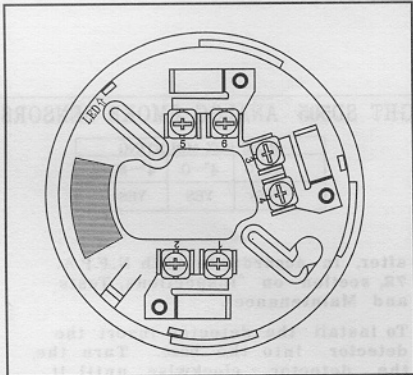
SPECIFICATIONS

CATEGORY	SD505- APS	SD505- AIS	SD505- AIS	SD505- 4AB	SD505- 6AB
Absolute Maximum Applied Voltage	41.0 VDC	41.0 VDC	41.0 VDC	41.0 VDC	41.0 VDC
Operating Voltage Range (V) (S-SC)	24 - 40.7 VDC	24 - 40.7 VDC	24 - 40.7 VDC	24 - 40.7 VDC	24 - 40.7 VDC
Sensitivity Range	0.88-3.57 %/ft.	0.53-1.15 %/ft.	135-150°F.	N/A	N/A
Average Current Consumption (S-SC) Normal Mode	390µA Typical 340µA Maximum	390µA Typical 340µA Maximum	390µA Typical 340µA Maximum	N/A	N/A
Average Current Consumption (S-SC) Low Power Mode	120µA @ 0.75s 110µA @ 1.50s	120µA @ 0.75s 110µA @ 1.50s	120µA @ 0.75s 110µA @ 1.50s	N/A	N/A
Average Current Consumption (S-SC) When Called	2mA	2mA	2mA	N/A	N/A
Alarm Current (S- SC)	(See Base)	(See Base)	(See Base)	8mA (Typical)	8mA (Typical)
Remute LED Current	(See Base)	(See Base)	(See Base)	8mA (Typical)	8mA (Typical)
Device Type Code	88 Hex	AB Hex	88 Hex	N/A	N/A
Operating Temperature	0° - 49° C	0° - 49° C	0° - 49° C	0° - 49° C	0° - 49° C
Storage Temperature	-20° - 60° C	-20° - 60° C	-20° - 60° C	-20° - 60° C	-20° - 60° C
Test	*	*	*	N/A	N/A
Dimensions	3-15/16"D X 1-1/2" H	3-15/16"D X 1-3/4" H	3-15/16"D X 1-9/16" H	3-15/16"D X 15/32" H	5-7/8"D X 15/32" H
Environment	Indoor Use Only	Indoor Use Only	Indoor Use Only	Indoor Use Only	Indoor Use Only
Visual Alarm/Power Indicator	Bi-Directional	Bi-Directional	Bi-Directional	See Sensor	See Sensor
Address Setting	*	*	*	N/A	N/A

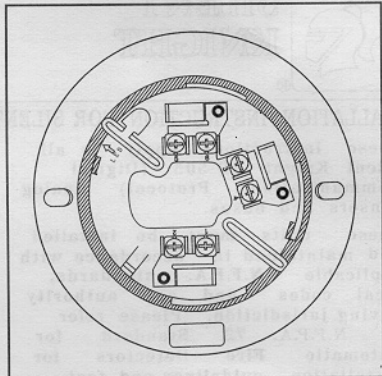
* = See Control Panel For proper address setting and testing procedure.

WARNING!!!

Failure to follow these instructions may result in the failure of the detector to to initiate an alarm condition. Silent Knight is not responsible for detectors that have been improperly installed, tested or maintained.

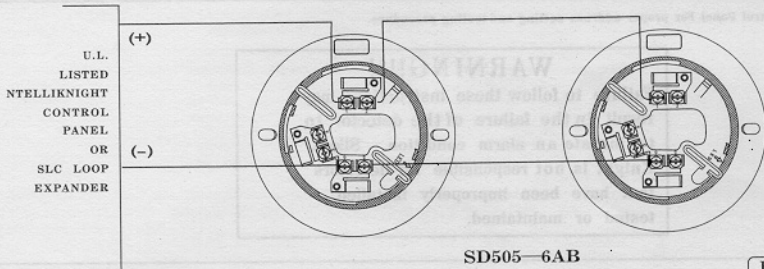
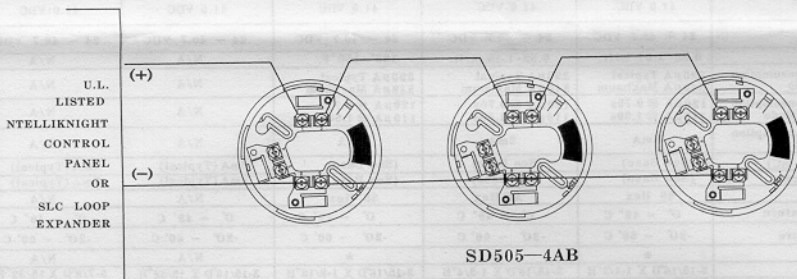


SD505-4AB BASE



SD505-6AB BASE

ATTENTION!!!!
 INSTALLATION WIRING SHALL NOT EXCEED
 50 OHMS (14-18 AWG.)



Instructions For Implementing The Security Feature

The following instructions will enable the user to activate the security feature and to release the base security locking tab so as to remove the sensor from the base.

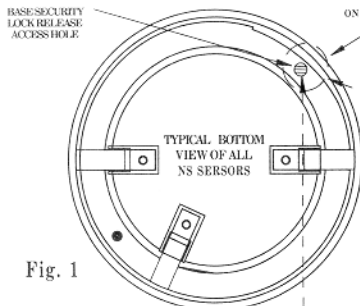


Fig. 1

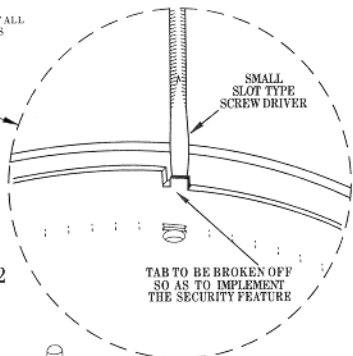


Fig. 2

ALIGNMENT OF SECURITY HOLE ON SENSOR TO THE SECURITY LOCKING TAB ON BASE

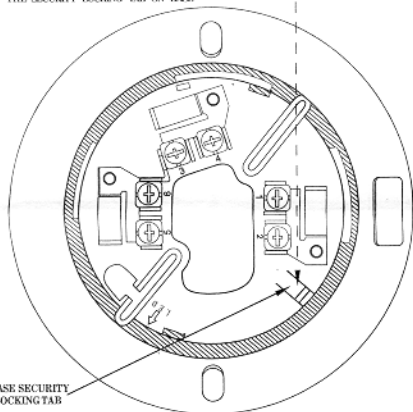


Fig. 3

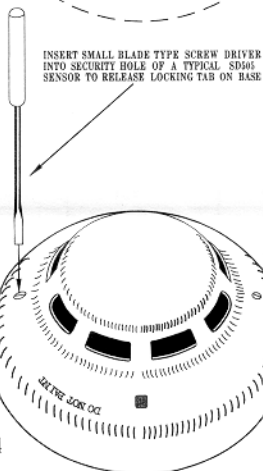


Fig. 4

- 1) Take any sensor and turn it over to view the bottom as shown in Fig. 1. Using a small blade type screw driver break the tab as shown in Fig. 2. This will allow the base security locking tab, as shown in Fig. 3 to stay elevated. This will prevent the sensor from being removed from its base.
- 2) To remove the sensor from its base, take a small diameter screw driver and insert it into the large hole on the outer rim of the sensor (see Fig. 4). Use caution when pushing the base security locking tab down. Only use enough force to remove the sensor. While pushing the tab down rotate the sensor counter clockwise enough to clear the base security locking tab. Once this is accomplished the sensor can be completely removed.

CAUTION!!! DO NOT USE EXCESSIVE FORCE WHEN UNLOCKING THE BASE SECURITY LOCKING TAB

