

SPECIFICATIONS

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	SD505-DUCT	SD505-DUCTR
Alarm Relay Contact Rating		10A @ 24VDC 10A @ 115VAC 10A @ 240VAC
Trouble Relay Contact Rating		2.5A @ 30VDC
Operating Voltage		24VDC
Aux. Power Input Current		20mA Standby 62mA Alarm
SLC Input Current	0.5mA	0.5mA
Maximum SLC Resistance	50 Ohms	50 Ohms
Operating Temperature	32F ~ 100F	32F ~ 100F
Humidity	10% ~ 85% RH Non-Condensing	10% ~ 85% RH Non-Condensing
Air Velocity Rating	300 ~ 4000 ft./min.	300 ~ 4000 ft./min.

III. ELECTRICAL INSTALLATION

A. GENERAL INFORMATION

Wiring must conform to applicable local codes, ordinances and regulations covering these types of devices. Wire the detectors according to the engineering drawings for the particular job requirements. These detectors are not intended for open area protection, nor should they be used for open air protection. Refer to NFPA 90A and NFPA 72 for general and additional information on Duct Smoke Detectors concerning operation and installation. Terminals are suitable for up to #14 gauge wire.

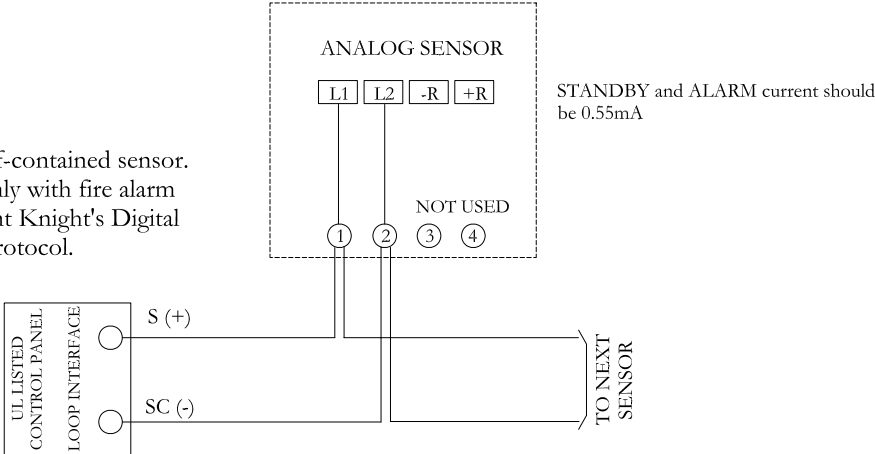
B. DETECTOR WIRING

1. With power source de-energized and the smoke detector not installed, wire all connections per engineering drawings. Refer to the applicable figures below depending on your duct housing model number.
2. With all wiring in place, install the detector head.
3. Energize the duct detector.

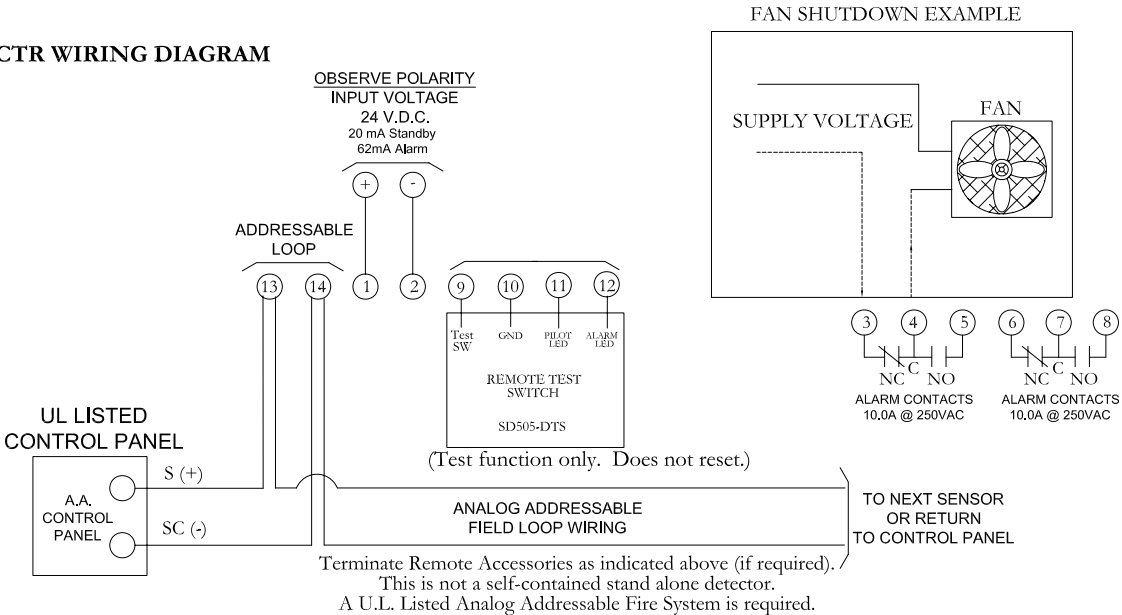
C. WIRING DIAGRAMS

SD505-DUCT WIRING DIAGRAM

The SD505-DUCT is not a self-contained sensor. This product is compatible only with fire alarm control panels that utilize Silent Knight's Digital Communications Protocol.

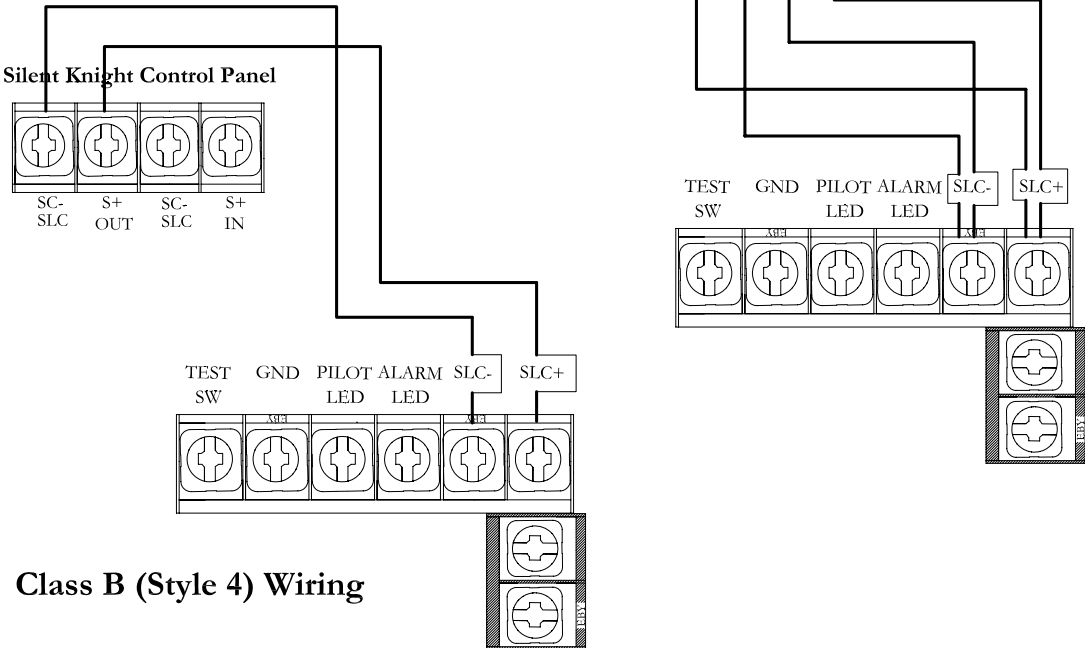
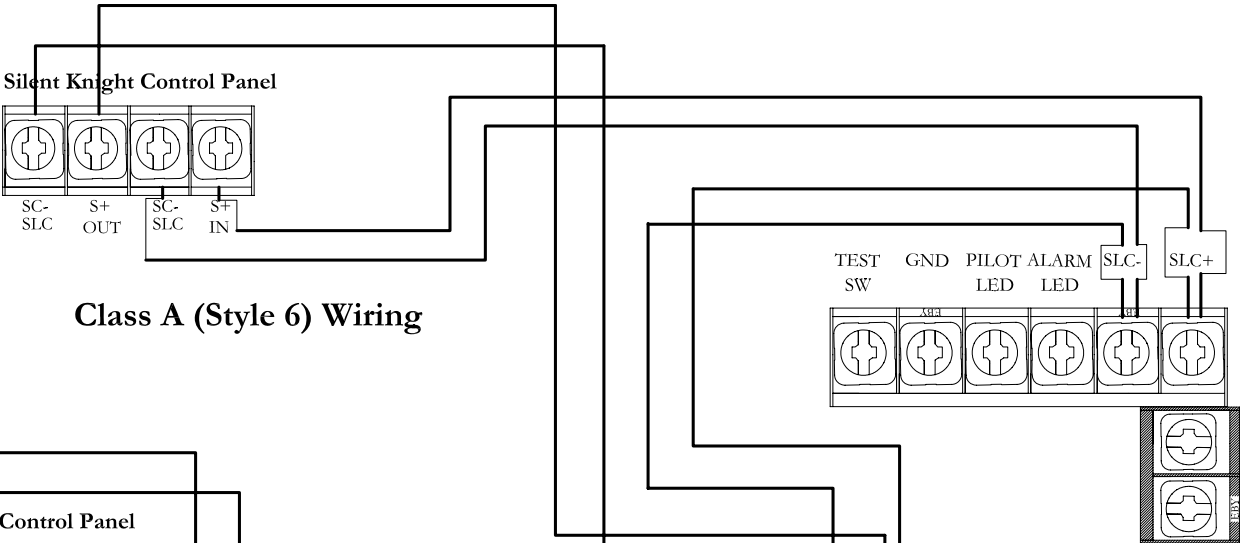
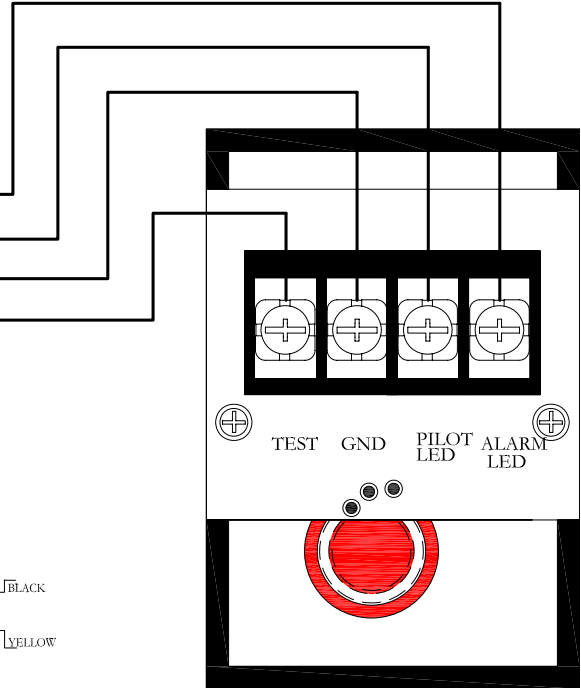
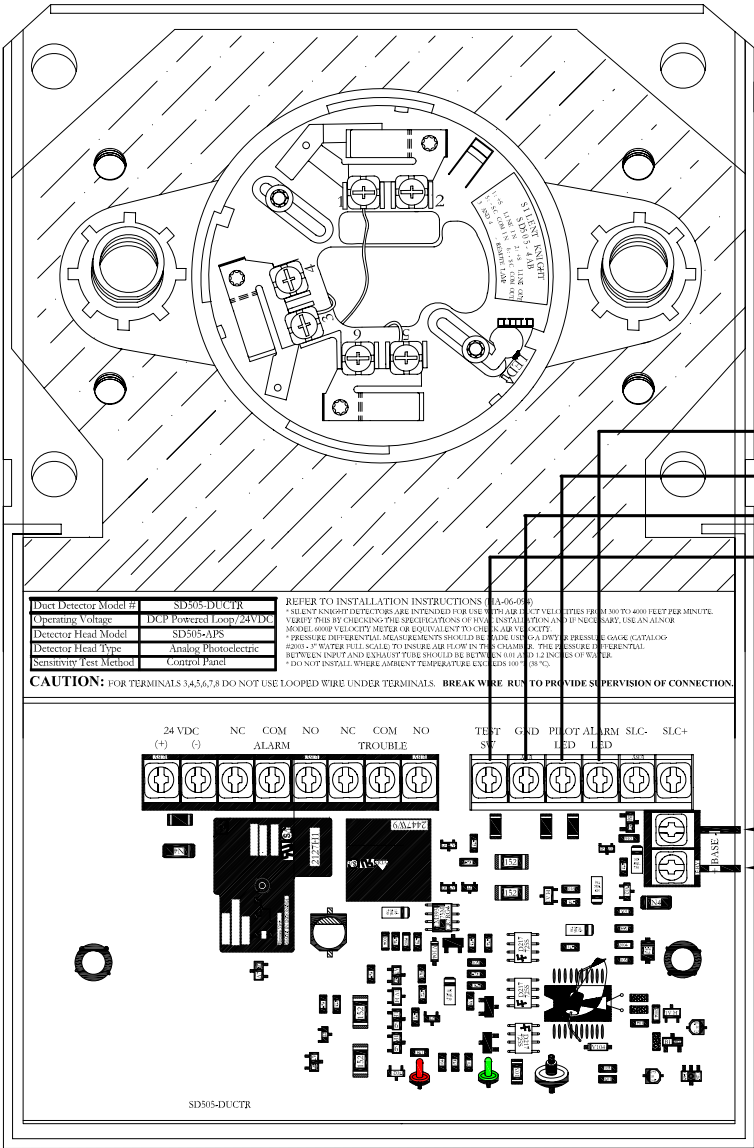


SD505-DUCTR WIRING DIAGRAM



CAUTION: Since the analog loop is current limited similar to a conventional two-wire loop, the SD505-DUCTR cannot be guaranteed to operate under all conditions. This analog duct housing must be treated as a two-wire conventional duct detector when considering auxiliary functions necessary for smoke control.

SD505-DUCTR AND SD505-DTS-K
WIRING CONNECTIONS



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