

**Model SD505-DUCTR**

Duct Detector Housing with SD505-APS Analog  
Photoelectric Smoke Sensor and Relays  
and

**Model SD505-DTS-K**

Remote Test Switch

Detect smoke in air handling systems and prevent re-circulation  
with Silent Knight's addressable duct smoke detector

### Analog Duct Smoke Detector with Relay Module and Remote Test Switch

The SD505-DUCTR Addressable duct smoke detector provides early detection of smoke and products of combustion present in air moving through an HVAC duct to prevent re-circulation of smoke into the air handling system. The SD505-DUCTR is a heavy duty metal housing with a pre-installed SD505-APS Analog Photo Electric Smoke Sensor and relay module. When smoke is detected in a duct, the unit communicates the condition to the IntelliKnight FACP. The built-in relay module, in turn, turns off fans, blowers, and other devices.



SD505-DUCTR

The SD505-DTS-K is a remote test switch that is used with the SD505-DUCTR so you can remote test the Duct Detector. It also provides LED indication of the status of the SD505-DUCTR. The SD505-DTS-K uses the same key as the control panel.



SD505-DTS-K

### Features

- Two-wire connection to SLC
- Detects and limits the spread of smoke
- Rugged steel backbox with clear plastic cover
- LED alarm indication and communication on sensor head
- No screens or filters to clean
- SD505-APS Photoelectric Smoke Detector pre-installed.
- 3 standard tube lengths
- Large terminal connection screws
- UL Listed
- CSFM
- MEA 429-92-e Vol XI

Specifications	Rating
<b>SD505-DUCTR</b>	
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
Maximum SLS Resistance	50 Ohms
Operating Temperature	32°F - 100°F
Humidity	10% -85% RH Non-Condensing
Air Velocity Rating	300 - 4000 ft./min
Dimensions	91/8"L x 71/4"W x 21/4"H
Maximum Net Weight	3lbs
Sampling Tubes	2.5ft., 5ft, or 10ft



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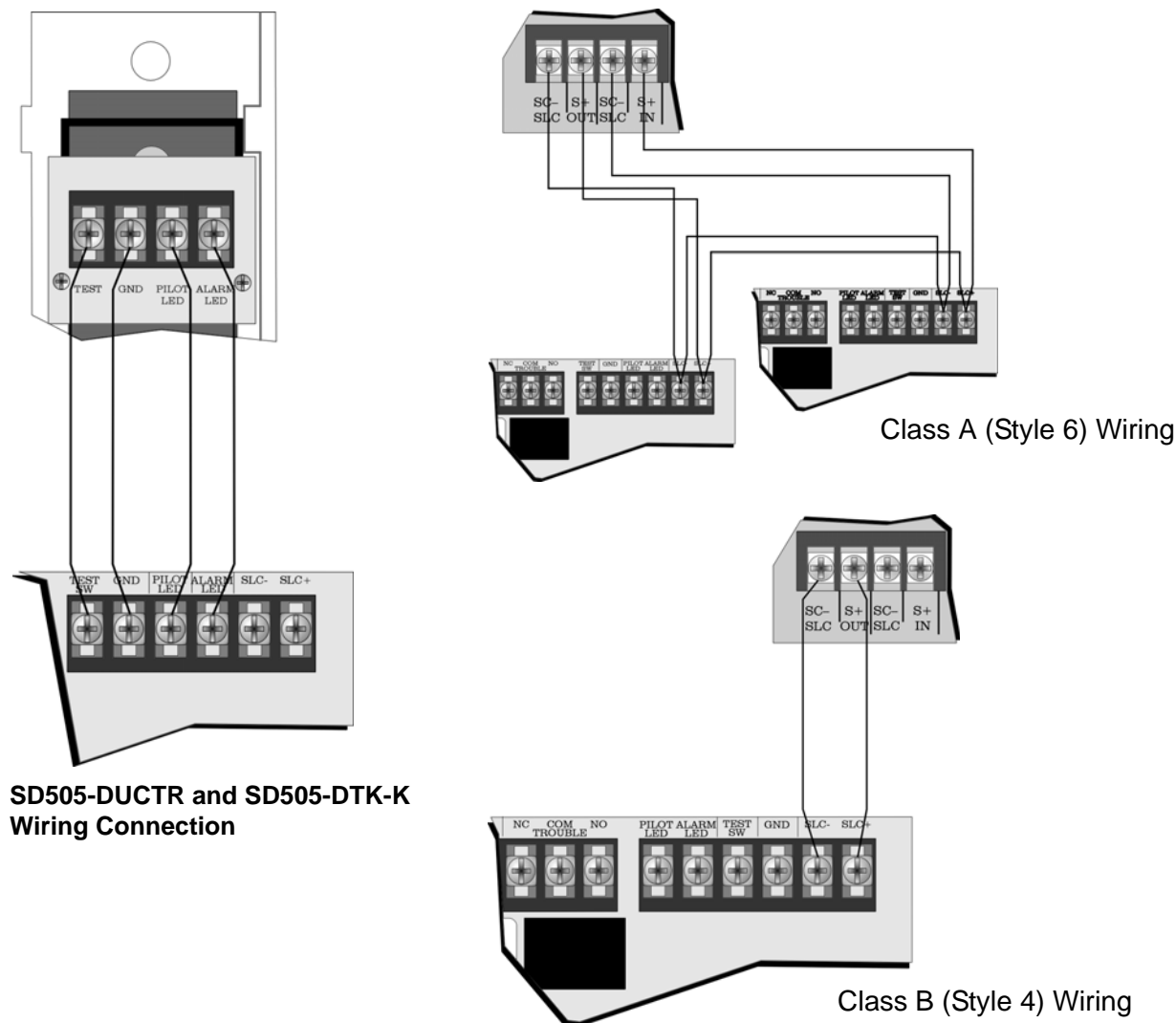
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## SD505-DUCTR Duct Detector Housing with Relay Module and SD505-DTS-K Remote Test Switch



### Engineering Specifications

The Air Duct smoke detector with relay module remote test switch shall be Silent Knight module SD505-DUCTR and SD505-DTS-K. The housing shall contain a Analog Photoelectric Smoke Sensor, Silent Knight model SD505-APS. Alarm Relay rated at 10A @ 120/240 VAC and 24 VDC to control HVAC power. Module shall have separate LEDs that indicate normal or alarm condition. Module shall have a momentary key switch for testing of the duct detector.



**SD505-DUCTR and SD505-DTK-K  
Wiring Connection**

**Class B (Style 4) Wiring**



This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific application or anticipate all requirements. All specifications are subject to change without notice. For more information contact Silent Knight 7550 Meridian Circle, Suite 100, Maple Grove, MN 55369-4927  
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