

### Model SD505-ADHR

Duct Detector Housing with Relay Module

# Model SD505-DTS

Remote Test Switch



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

The SD505-ADHR/DTS addressable duct smoke detector detects 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-ADHR is a heavy duty metal housing with a pre-installed detector base 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.

The SD505-DTS is a remote test switch that is used with the SD505-ADHR so you can remote test the Duct Detector. It also provides LED indication of the status of the SD505-ADHR.

The SD505-ADHR/DTS is designed to be used with Silent Knight's SD505-APS Photoelectric Smoke Detector and SD505-AIS Ionization Smoke Detector.

# Models SD505-ADHR and SD505-DTS

#### **Features**

- Two-wire connection to SLC
- LED alarm indication and communication on sensor head
- Rugged steel backbox with clear plastic cover
- Installation template included
- Large terminal connection screws
- Interchangeable "plug-in" photoelectric or ionization heads
- Operates on 24 VAC/VDC or 120/240 VAC

### **Specifications**

#### **Included Parts:**

Metal housing with 7.5" exhaust tube

SD505-4AB detector base

Installation template

4 mounting screws

# Parts not included with SD505-ADHR/DTS:

Photoelectric Smoke Det. SD505-APS Ionization Smoke Det. SD505-AIS

Sampling tube for 6" to 2.5' duct width STS-2.5

Sampling tube for 2.5' to 5.0' duct width STS-5.0

Sampling tube for 5.0' to 10.0' duct width STS-10.0

Operating Voltage: 24 VAC/VDC 120/240 VAC

Current @ 24 VDC:

Alarm: 75 mA Max. Standby: 35 mA Max.

SLC Current:

Standby/Alarm: .082 mA

Alarm Relay: 10 A @ 24 VDC

10 A @ 120/240 VAC

Trouble Relay: 2.5 A @ 30VDC

Air Velocity:

500-4000 fpm SD505-APS

300-4000 fpm SD505-AIS

Sensitivity:

1.1 SD505-APS
0.8 SD505-AIS
Humidity: 10 to 85% RH
Ambient Temperature: 32°F to 100°F

SD505-ADHR

Dimensions: 10" H x 8.25" W x

2.25" D

(0°C to 37°C)

SD505-DTS

Dimensions: 4.5" H x 2.75" W x

1-5/8" D

Color:

SD505-ADHR: Gray SD505-DTS: Red



SD505-ADHR



SD505-DTS

## Approvals

- UL lised
- CSFM
- MEA 429-92-E Vol XI

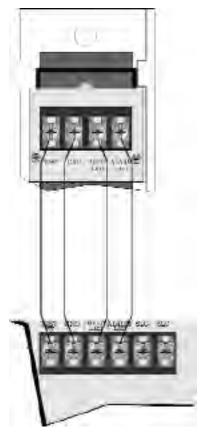


# SD505-ADHR Duct Detector Housing with Relay Module and SD505-DTS Remote Test Switch

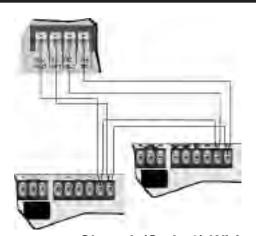


# **Engineering Specifications**

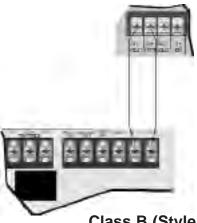
The air duct smoke detector with relay module remote test switch shall be Silent Knight module SD505-ADHR/DTS. The housing shall contain a detector base, Silent Knight model SD505-4AB. The detector base and housing shall be compatible with Silent Knight smoke detectors models SD505-APS and SD505-AIS. 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-ADHR and SD505-**DTS Wiring Connections** 



Class A (Style 6) Wiring



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 applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight © 2007 Honeywell International Inc. 7550 Meridian Circle Suite 100, Maple Grove, Mn 55369-4927. Phone: (800) 328-0103, Fax: (763) 493-6475.

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FORM# 350236 Rev. B, 07/07