



# SK-DUCT

## Intelligent Air Duct Smoke Detector

The SK-DUCT Intelligent air duct smoke detector is used with SK-PHOTOR (included) for detecting smoke and products of combustion present in air moving through an HVAC air handling system. When smoke is detected in a duct, the unit communicates the condition to the Honeywell Silent Knight control panel. The panel, in turn, depending on programming and wiring, turns off fans, blowers, and other devices. The duct housing allows for mounting of SK-RELAY addressable relay module.

The Model SK-DUCT Air Duct Smoke Detector utilizes photoelectric technology for the detection of smoke. It provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial and Industrial applications.

The SK-DUCT is in a heavy duty gray steel back box with a clear cover. It features a pivoting housing that fits both square and rectangular footprints capable of mounting to a round or rectangular duct. It installs quickly and easily.

The unit senses smoke in the most challenging conditions, operating in airflow speeds of 100 to 4000 feet per minute, temperatures of -4°F to 158°F, and a humidity range of 0 to 95 percent (non-condensing).



**SK-DUCT**

## FEATURES & BENEFITS

- Versatile mounting options: square or rectangular configuration
- New Cover tamper signal
- LED alarm indication and communication on sensor head
- Detects and limits the spread of smoke
- Rugged steel back box with clear plastic cover
- Easy to clean
- Large terminal connection screws
- Transparent cover for convenient visual inspection
- Patented sampling tube installs from front or back of the detector with no tools required
- Available space within housing to accommodate mounting of relay module
- UL listed

# SK-DUCT Technical Specifications

## PHYSICAL

(Rectangular): 14.38" (37 cm) L X 5" (12.7 cm) W X 2.5" (6.6 cm) D

(Square): 7.75" (19.7cm) L x 9"(22.9cm) W x 2.5" D (6.35cm)

Weight: 1.6lb (0.73kg)

## ELECTRICAL (using SK-Photo or SK-PhotoR)

Operating Voltage: 15–32 VDC

Standby Current: 300  $\mu$ A @ 24 VDC max.

Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

## ENVIRONMENTAL

Operating Temperature: -4°F – 158°F (-20°C – 70°C)

Humidity: 0% – 95% (non-condensing)

## AIR VELOCITY

100 to 4000 ft/min: (0.5 – 20.3 m/sec.)

## ORDERING INFORMATION

**SK-DUCT:** Intelligent non-relay duct smoke detector

**SK-PHOTO:** Addressable Photo Detector

**SK-PHOTOR:** Addressable Photo Detector with remote test capability (included with SK-Duct)

**SK-RELAY:** Addressable Relay Module, must be added if relay function is required, (fits in housing)

## ACCESSORIES

**DST1:** Metal Sampling Tube Duct Width up to 1'

**DST1.5:** Metal Sampling Tube Duct Widths 1' – 2'

**DST3:** Metal Sampling Tube Duct Widths 2' – 4'

**DST5:** Metal Sampling Tube Duct Widths 4' – 8'

**DST10:** Metal Sampling Tube Duct Widths 8' – 12'

**DH4000E-1:** Weatherproof Enclosure

**ETX:** Metal Exhaust Tube Duct width 1'

**RA100Z:** Remote LED Annunciator

**DCOIL:** Duct accessory coil, required if using with SK-PHOTO and not SK-PHOTOR (included) with SK-DUCT

**RTS151:** Magnetic Remote Test station

**RTS151KEY:** Key-Activated Remote Test station  
M02-04-00 Test Magnet P48-21-00 Replacement End Cap for Metal Sampling Tube

**APA151:** Remote annunciator with piezo alarm

## IMPORTANT NOTES:

- The use of either RTS151 or RTS151KEY requires the installation of an accessory coil, DCOIL, sold separately. Please refer to the SK-DUCT installation instructions for more information
- The RTS151/RTS151KEY test coil circuit requires an external 24VDC power supply which must be UL listed.

ACCESSORY CURRENT LOADS AT 24VDC		
Device	Standby	Alarm
RA100Z	0mA	12mA Max.
RTS151	0mA	12mA Max
RTS151KEY	12mA	12mA Max

## COMPATIBILITY

The SK-DUCT is compatible with the following Honeywell Silent Knight fire alarm control panels:

**6820:** Addressable fire alarm control panel

**6820EVS:** Addressable fire alarm control panel with an emergency mass notification system.

**6808:** Addressable fire alarm control panel

**6700:** Addressable fire alarm control panel

**5700:** Addressable fire alarm control panel

**5808:** Addressable fire alarm control panel

**5820XL:** Addressable fire alarm control panel

**5820XL-EVS:** Addressable fire alarm control panel with an emergency mass notification system.

For a complete listing of all compliance approvals and certifications, please visit [www.silentknight.com](http://www.silentknight.com).

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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 Technical Support, call 800-446-6444.

## For more information

Learn more about Honeywell Silent Knight and other products by visiting [www.silentknight.com](http://www.silentknight.com)

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