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).

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
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” (19.7 cm) L x 9” (22.9 cm) W x 2.5’ (6.35 cm)
Weight: 1.6lb (0.73kg)

ELECTRICAL (using SK-Photo or SK-PhotoR)
Operating Voltage: 15–32 VDC
Standby Current: 300 μA @ 24 VDC max.
Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

ENVIRONMENTAL
Operating Temperature: -4ºF – 158ºF (-20ºC – 70ºC)
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’
DH400OE-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

<table>
<thead>
<tr>
<th>Device</th>
<th>Standby</th>
<th>Alarm</th>
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</thead>
<tbody>
<tr>
<td>RA100Z</td>
<td>0mA</td>
<td>12mA Max.</td>
</tr>
<tr>
<td>RTS151</td>
<td>0mA</td>
<td>12mA Max.</td>
</tr>
<tr>
<td>RTS151KEY</td>
<td>12mA</td>
<td>12mA Max.</td>
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</tbody>
</table>

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 more information
Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

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