

SMOKE DETECTOR

Model DH-98

Design Features

- Detect and limit the spread of smoke throughout building HVAC ducts
- Interchangeable Plug-In photoelectric or ionization heads
- No screens or filters to clean
- Rugged gray steel back box with clear cover
- Meets UL 268A Requirements



Product Listings

Underwriters Laboratories: S1383
CSFM # : 3240-0410 : 155

Product Description

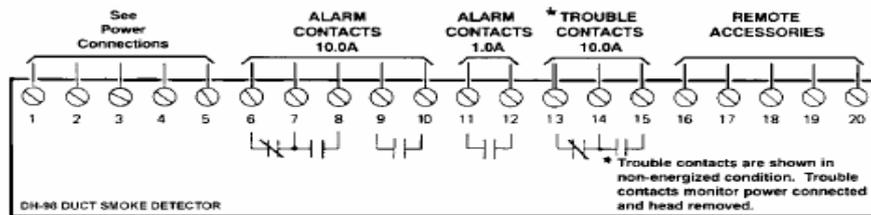
The DH-98 smoke detector provides early detection of smoke and products of combustion present in air moving through an HVAC duct. This product is designed for the prevention of smoke re-circulation in areas by the air handling systems. Fans, blowers, and complete systems may be shut down in the event of smoke detection. The DH-98-P and DH-98-I operate on 115 VAC, 24 VAC and 24 VDC. Each of the device contains 3 sets of alarm contacts, 1 set of form "C" contacts rated at 10 amps, 1 set of form "A" contacts rated at 10 amps, 1 set of form "A" contacts rated at 1 amp. There is also 1 set of form "C" 10 amp trouble contacts for monitoring detector head removal, and the failure of the input supply voltage.

Visual indicators, pilot and alarm, are mounted on the housing front for status indication. A manual test/reset switch is also provided on the front of the detector. Air sampling is accomplished by two tubes which protrude into the duct. An exhaust tube of one standard length (7.5") is provided with the detector. An 11.5" intake sampling tube is also supplied. Sampling tubes in three other standard lengths 2.5 ft., 5 ft., and 10 ft., can be ordered separately and cut to size to fit the duct. Mounting the duct smoke unit is accomplished by the use of a template and 4 sheet metal screws provided. Mounting can be achieved without the removal of the clear cover which is secured by 4 capture screws.

Specifications

Supply Voltage	24 VAC/VDC, 115VAC
Supply Current	24 VAC: 20mA(Head in alarm: 95mA) 24 VDC: 13mA(Head in alarm: 60mA) 115VAC:14mA(Head in alarm: 28mA)
Alarm Contacts	(1) form C, alarm relay, 10A @ 115VAC (1) form A, alarm relay, 10A @ 115VAC (1) form A, alarm relay, 1 A @24VDC
Detector Head	DH-98-P: Photoelectric DH-98-I: Ionization
Trouble Contact	(1) form C trouble relay, 10A @115VAC
Operating Temp	32 to 120° F (0 to 49°C)
Operating Humidity	10% to 85% RH
Air Velocity	300 to 4,000 ft./minute
Case	18 Gauge steel back box, clear plastic cover
Weight	3 lbs.
Dimensions	9 1/8"L X7 1/4"W X 2 1/4"H
Approval	Underwriters Laboratories Listed, (UL268A)

Wiring Diagrams



Order Information

DH-98-P	Photoelectric, 24VAC/VDC, 115VAC
DH-98-I	Ionization, 24VAC/VDC, 115VAC
DH-98-HVP	Photoelectric, 24VAC/VDC, 230VAC
DH-98-HVI	Ionization, 24VAC/VDC, 230VAC

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