



NOTIFIER[®]
by Honeywell

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DH500 & DH500AC/DC-E

Duct Housings

Section: Intelligent/Addressable
Devices

FEATURES

- **A c c o m m o d a t e s analogue addressable Ionisation or Optical sensors**
- **Continuous sensitivity monitoring and alarm verification from the panel**
- **Simple change of sensor heads: Twist-in, twist-out**
- **Easy and quick mounting to round or rectangular ducts**
- **Remote test station option**
- **Air velocity rating from 150 to 1200 meters per minute (500 to 4,000 feet per minute)**
- **Rugged Noryl[®] housing (mounting portion)**
- **Clear polycarbonate cover for convenient visual inspection of sampling tube filters**
- **Three-year limited warranty**

GENERAL

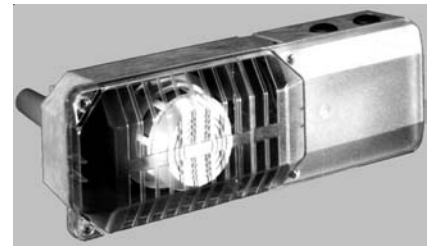
The DH500 and DH500AC/DC-E Duct Housings are designed to accommodate NOTIFIER analogue addressable, Ionisation or Optical smoke sensors for use with any NOTIFIER protocol fire alarm control panel.

This Duct Housing system features the superior capabilities of an analogue addressable sensor in a unit that is easy to install and maintain, making this duct detector the new industry standard.

Duct Housings sample air currents passing through a duct via the analogue addressable sensor and allows the early detection of developing fire(s). The sensor enables the control panel to provide the operator with a pinpoint description of where the fire has been detected.

The control panel is capable of not only knowing the sensor's location but exactly how much smoke is in the chamber of the sensor. When sufficient smoke is sensed, an alarm signal is initiated at the control panel. All appropriate action is taken to shut off fans and blowers, change over air handling systems, etc. This can prevent the rapid distribution and isolation of toxic smoke and fire gases throughout the areas served by the duct system.

The DH500AC/DC-E also has 2 (two) form 'C' auxiliary contacts and an option for powered outputs.



INSTALLATION

The DH500 and DH500AC/DC-E Duct Housings come with a built-in exhaust tube. Sampling tubes are available to fit ducts from 0.6M to 3M (1 to 10 feet) wide.

The housings will accommodate either the analogue addressable Ionisation or Optical twist-in, twist-out smoke sensors.

The sensors use a common base to simplify installation, service, and maintenance. The common base also enables the sensors to be changed without removing the duct housing.

Mounting hardware and installation instructions are provided with each module.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact NOTIFIER. Charles Avenue, Burgess Hill, West Sussex, RH15 9UF. United Kingdom
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SPECIFICATIONS

• Dimensions

- ✓ 368(w) x 127(h) x 89(d)
- ✓ Weight: 1,100 g.

• Current Consumption

- ✓ DH500: 230 μ A @ 24 VDC (without communication); 330 μ A @ 24 VDC (one communication every 5 sec. with LED enabled) including sensor.
- ✓ LED Current: 6 mA @ 24 VDC (LED on).

• Operating Voltage

- ✓ 15 to 32 VDC peak.

• Environmental Limits

- ✓ 0°C to 49°C operating temperature
- ✓ 10% to 93%, non-condensing relative humidity
- ✓ 150 to 1200 metres per minute air velocity

ORDERING INFORMATION

Part No.	Description
DH500	Duct Housing.
DH500AC/DC-E	Duct Housing with contact outputs.

Note: The DH500 and DH500AC/DC-E units require an inlet tube and sensor head. This must be purchased separately, see Inlet Tube below.

Sensor:

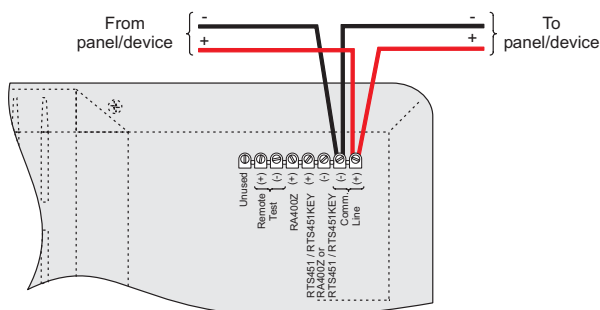
CPX-751E	Ionisation smoke sensor
SDX-751E	Optical smoke sensor

Inlet Tube:

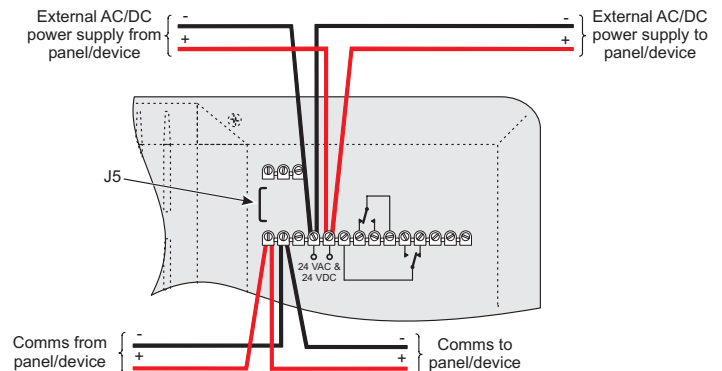
ST-1.5	Inlet tube. Outside duct width up to 0.6m.
ST-3	Inlet tube. Outside duct width from 0.6m to 1.2m.
ST-5	Inlet tube. Outside duct width from 1.2m to 2.4m.
ST-10	Inlet tube. Outside

Wiring Diagram

• DH500



• DH500AC/DC



Note: Cut jumper wire (J5) to allow monitoring of external power supply. When the jumper is cut, failure of the external power supply will disable smoke sensing.