DH500AC/DC ANALOGUE ADDRESSABLE DUCT SMOKE DETECTOR WITH RELAY AND 24V OUTPUTS

FEATURES:

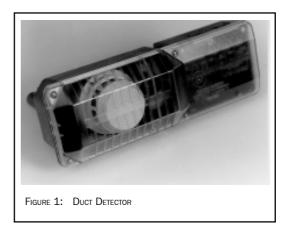
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- Powered outputs for remote LED, remote test and sounder
- Two changeover relay contacts
- 24VAC/DC operation
- Continuous sensitivity monitoring from the panel
- Analogue addressable ion/photo heads with twist-in/twist-out removal
- Air velocity rating from 2.5 m/s to 20 m/s
- Remote test station and remote annunciator accessories
- Clear polycarbonate cover for easy visual inspection of sampling tube filters

Description:

System Sensor's duct detector model DH500ACDC is



a duct housing suitable for installation of System Sensor intelligent detectors. The DH500ACDC duct housing samples air currents passing through a duct and gives dependable performance for shutdown of fans, blowers, and air conditioning systems, preventing the spread of toxic smoke and fire gases through the protected area. Using an external 24V AC or DC supply, the unit also provides two changeover relay contacts suitable for electrical equipment shutdown and a powered output suitable for a sounder or a remote LED. If Jumper J5 is broken, then the external power supply is monitored, generating a fault signal at the control panel if the power supply fails. When power supply monitoring is enabled, the sensor does not function in case of a failure of the external power supply.

The DH500ACDC duct housing can accommodate either the 1551E or 2551HRE. The twist-in, twist-out heads allow for quick and easy cleaning or application changes without removing the duct housing.

SPECIFICATIONS:

Operating Voltage Range (comm. line): Max Avg. Standby Current (comm. line): Max Avg. Standby Current (comm. line):

LED current (nominal): Operating Humidity Range: Operating Temperature Range: Length: Width: Depth: Weight: Duct air velocity: 15 to 32 VDC 230μA at 24 VDC (no communication) 330μA (one communication every 5 sec. with LED blink enabled) 6mA at 24VDC 10% to 93% Relative Humidity, non-condensing -10°C to +60°C 367mm 127mm 102mm 1.8kg 2.5m/s to 20m/s

EXTERNAL SUPPLY CURRENT CONSUMPTION:

	Standby	Alarm
24VAC	65mA	182mA
24VDC	26mA	87mA

EUROPEAN HEADQUARTERS SYSTEM SENSOR EUROPE 3 HORSHAM GATES HORSHAM WEST SUSSEX RH13 5PJ UNITED KINGDOM TEL. : +44 1403 276500 FAX : +44 1403 276501 e-mgil: Sales@sseuk.com EUROPEAN MANUFACTURING CENTRE PITTWAY TECNOLOGICA SPA VIA CABOTO 19 34147 TRIESTE ITALY

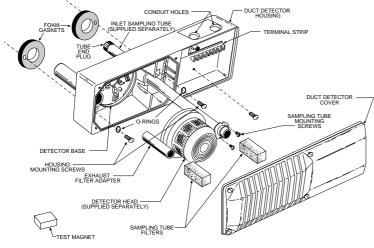
TEL. : +39 40 9490 111 FAX : +39 40 382137



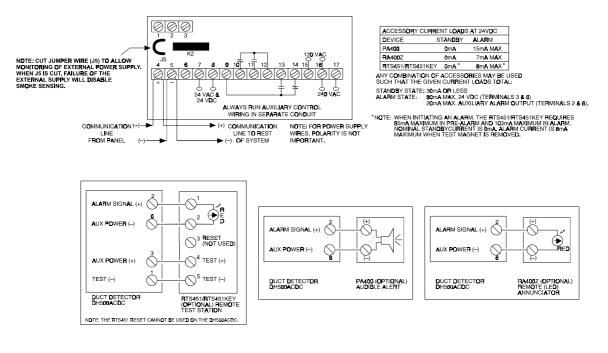
ACCESSORY DRIVE CURRENT

Maximum Auxiliary Current (Remote Test Station)

Maximum Alarm Output Current (Remote LED, sounder) Remote Test Station Current (Standby) Remote Test Station Current (Alarm) Remote Test Station Current (Magnet present) Alarm Output Voltage (Input Voltage 20V -29V) 80mA (Alarm) 30mA (standby) 20mA 0mA 7mA (continuous) 78mA (max) 18 - 28V



Exploded View of DH500ACDC Duct Smoke Detector Components



DH500ACDC Wiring Diagram