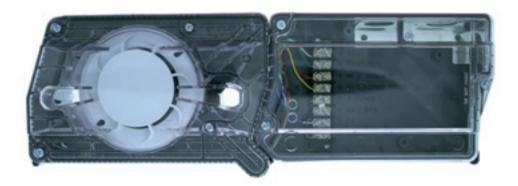


# **Duct Smoke Detector range**

# Data Sheet





Notifier Series duct smoke detectors are flexible enough to fit configurations from square to rectangular and everything in between.

These units sense smoke in the most challenging conditions, operating in airflow speeds of 0.5m/s to 20m/sec, temperatures of  $0^{\circ}$ C to  $70^{\circ}$ C, and a humidity range of 0 to 95 percent (non-condensing).

An improved cover design isolates the detector head from the low-flow feature for simple maintenance. The unit incorporates cover tamper feature to indicate a trouble signal for a removed or improperly installed sensor cover. The duct detector housing provides a 20mm conduit knockout and ample space to facilitate easy wiring and mounting of relay module.

The duct smoke detector can be customised to meet local codes and specifications without additional wiring.

PLEASE REMEMBER DUCT SMOKE DETECTORS ARE: NOT a substitute for an open area smoke detector, NOT a substitute for early warning detection, and NOT a replacement for a building's regular fire detection system.

## Features

- · Photoelectric, integrated low-flow technology
- Air velocity rating from 0.5m/s to 20m/sec
- Versatile mounting options: square or rectangular configuration
- Broad ranges for operating temperature 0°C to 70°C and humidity (0% to 95% non-condensing)
- Patented sampling tube installs from front or back of the detector with no tools required
- Cover tamper signal
- · 20mm conduit knockout for easy wiring access
- Available space within housing to accommodate mounting of relay module
- Easily accessible code wheels on sensor head (sold separately)
- Clear cover for convenient visual inspection

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 Phone: +44 (0) 1444 230 300 Fax: +44 (0) 1444 230 888

www.notifierfiresystems.co.uk







## DNRE intelligent non-relay photoelectric duct smoke detector

The DNRE intelligent non-relay photoelectric duct smoke detector features a pivoting housing that fits both square and rectangular footprints capable of mounting to a round or rectangular duct.



#### **DNRE non-relay duct smoke detector**

#### **Mechanical Specification**

• Size:	(Rectangular) (Square)	37 cm L; 12.7 cm W; 6.36 cm D 19.7 cm L; 22.9 cm W; 6.35 cm D
<ul> <li>Weight</li> </ul>	t:	0.82 kg

- Operating Temperature Range:
- Storage Temperature Range:

•

Range:

 $0^{\circ}$  to  $70^{\circ}C$ **Operating Humidity** 0% to 95% relative humidity non-condensing • Air Duct Velocity: 0.5 to 20 m/sec

0°C to 70°C

#### **Electrical Specification**

- · Please see detector head installation manual for electrical specifications
- Accessory Current Loads at 24 VDC Device Standby RI/W/3V 0 mA

# 12 mA Max.

Alarm

#### Wiring for intelligent non-relay duct smoke detector

COMM. LINE (+)

COM

Please refer to DNRE installation manual for more information

2ND DETECTOR

#### System wiring diagram for DNRE



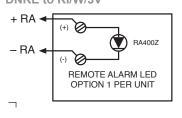
- The sampling tube may be installed from the front or back of the detector
- · The tube locks securely into place and can be removed by releasing the front or rear locking tab



# DNRE to RI/W/3V

COMM. LINE

NOTIFIER CONTROL PANEL



1ST DETECTOR



### D2E conventional duct smoke detector

The D2E 2-wire photoelectric duct smoke detector features a pivoting housing that fits various applications: both square and rectangular footprints mount to round or rectangular duct work.

## Specifications

D2E conventional duct smoke detector

#### **Mechanical Specification**

- (Rectangular) 37 cm L; 12.7 cm W; 6.36 cm D Size: (Square)
- · Weight:

Range:

Range:

- 19.7 cm L; 22.9 cm W; 6.35 cm D 0.82 kg • Operating Temperature
- 0°C to 70°C • Storage Temperature
  - $0^{\circ}$  to  $70^{\circ}C$
- · Operating Humidity Range: 0% to 95% relative humidity non-condensing • Air Duct Velocity: 0.5 to 20 m/sec

#### Installing the Sampling Tube

- The sampling tube may be installed from the front or back of the detector
- · The tube locks securely into place and can be removed by releasing the front or rear locking tab



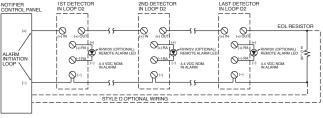
#### **Electrical Specification**

· Power supply voltage: 8.5-35 VDC Input capacitance: 0.1 µF max. • • Reset voltage: 2.5 VDC min. Reset time: (with RTS451) 0.03 to 0.3 sec. • • Reset time: (by power down) 0.3 sec. max. Power up time: 35 sec. max. • Alarm response time: • 15 sec. Sensitivity Test: See detector label • **Current Requirements: (Using No Accessories)** · Peak standby current: 120µA Max. standby current: 60 µA (average) • Max. alarm current: 130 mA Accessory Current Loads at 24 VDC Device Standby Alarm RI/W/3V 12 mA Max. 0 mA

#### Wiring for intelligent non-relay duct smoke detector

Please refer to the D2E installation manual for more information

System wiring diagram for 2-wire duct smoke detectors (powered from initiating device circuit)



Draduct Dange



## **Product Range at a Glance**

	Description	Part Number
	2-wire photoelectric low-flow duct smoke detector	D2E
	Intelligent Photoelectric Smoke Detector	DNRE
	Metal sampling tube duct width up to 0.3m	DST1
A STATEMENT	Metal sampling tube duct widths 0.3 to 0.6 m	DST1.5
and the second se	Metal sampling tube duct widths 0.6 to 1.2 m	DST3
	Metal sampling tube duct widths 1.2 to 2.4 m	DST5
	Metal sampling tube duct widths 2.4 to 3.6 m	DST10
	Remote annunciator alarm LED	RI/W/3V

Charles Avenue Burgess Hill W. Sussex RH15 9UF

T: +44 (0) 116 246 2255 F: +44 (0) 116 246 2210 E: sales@notifierfiresystems.co.uk www.notifierfiresystems.co.uk