

# InnovairFlex D2

## Conventional Duct Smoke Detector



### Conventional Initiating Devices

## General

The Notifier InnovairFlex **D2** conventional photoelectric smoke detector features a pivoting housing that fits various applications: both square and rectangular footprints mount to round or rectangular duct work.

This new duct smoke detector senses airflow speeds ranging from 0.5 to 20.32 metre per minute with proven precision. The enhancements built into this model improve false alarm immunity (with plug-in sensor head); broaden operating temperature (-20 °C to 70 °C) and humidity (0 to 95 percent non condensing) ranges; while simplifying installation and maintenance. These advance features can detect smoke even in the harshest duct applications.

The new design provides more wiring space with an added 20mm conduit knockout. Numbers and labels for terminal designations are consistent with previous Innovair models. The new sampling tube can be clicked into position with one smooth motion from either the front or the back of the detector.

The Notifier InnovairFlex D2 duct smoke detector has signals to indicate trouble and maintenance conditions. Additionally, a cover tamper feature is incorporated to indicate a trouble condition for removed or improperly installed sensor cover. An improved cover design, with an integrated low-flow feature, isolates the sensor head from the low-flow technology for simple maintenance.



## Features

- Photoelectric, integrated low-flow technology
- Air velocity rating from 0.5 m/s to 20.32 m/s
- Versatile mounting options: square or rectangular configuration
- Broad ranges for operating temperature (-20°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
- Increased wiring space with a newly added 20mm conduit knockout
- Backward compatible with existing Innovair models
- Replaceable plug-in sensor head
- Compatible with the range of Notifier conventional FIP's

## Approvals

CSIRO ActivFire listed to  
AS1603.13 - 1998

## Specifications

|                              |                                              |
|------------------------------|----------------------------------------------|
| Size: (Rectangle)            | 37 cm Length; 12.7 cm Width, 6.36 cm Depth   |
| (Square)                     | 19.7 cm Length; 22.9 cm Width; 6.35 cm Depth |
| Operating Temperature Range: | -20 degrees C to 70 degrees C                |
| Storage Temperature Range:   | -30 degrees C to 70 degrees C                |
| Operating Humidity Range:    | 0% to 95% relative humidity (noncondensing)  |
| Air Duct Velocity:           | 0.5 to 20.32 m/s                             |

## Electrical Ratings

|                              |                 |
|------------------------------|-----------------|
| Power supply voltage:        | 8.5-35 VDC      |
| Input capacitance:           | 0.1uF max       |
| Reset voltage:               | 2.5 VDC min     |
| Reset time: (by power down): | 0.3 seconds max |
| Power up time:               | 35 seconds max  |
| Alarm response time:         | 15 seconds      |

## Current Requirements:

|                       |                |
|-----------------------|----------------|
| Peak standby current: | 120uA          |
| Max standby current:  | 60uA (average) |
| Max alarm current:    | 130mA          |

## Product Line Information



DST1.5 - Metal sampling tube for duct widths up to 0.3m to 0.6m

DST3 - Metal sampling tube for duct widths up to 0.6m to 1.2m

DST5 - Metal sampling tube for duct widths up to 1.2m to 2.4m

DST10 - Metal sampling tube for duct widths up to 2.4m to 3.7m

ETX - Metal exhaust tube for duct widths up to 0.3m

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