

FF Data Sheet | Early Smoke Detection for HVAC Duct Systems

FWDDH-OPX

Duct Detector Housing including Detector and Base

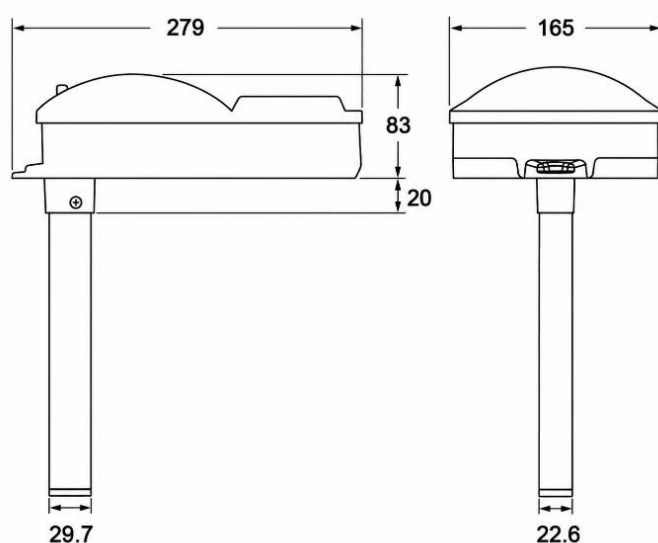
The FWDDH-OPX Duct Smoke Detector is specifically designed to provide early warning of smoke in heating, ventilation, and air conditioning (HVAC) ducts. Ideal for use in commercial and industrial environments, the unit continuously samples air movement within duct systems to detect the presence of smoke before it spreads to other areas.

Upon smoke detection, the unit can trigger fan shutdown or other connected control systems to prevent smoke circulation. This model combines an optical smoke detector, a robust housing unit, and a sampling tube, all optimised to ensure accurate detection across a broad airflow range from 0.5 m/s to 20 m/s.

Engineered for performance and ease of use, the DDH/UG-5-AFR features a one-tube air sampling system, a dust filter for challenging environments, and installer-friendly wiring. Its test hole is conveniently positioned on the cover for fast functional testing.

Designed for compatibility with Fusion AU-5000 fire detection systems, the unit supports both wired and wireless configurations.

Diagram



Key Features

- One-tube air sampling design for efficient airflow monitoring
- Suitable for low to high airflow speeds (0.5 m/s to 20 m/s)
- Built-in dust filter for harsh or dusty environments
- Compatible with both wired and wireless Fusion AU-5000 systems
- Easy sampling tube mounting and cable connections
- Convenient test hole on the cover for routine checks
- Simple, fast installation process

Specifications

Dimensions	279 mm × 165 mm × 83 mm (+20 mm pipe entry)
Weight	660 g
Operating Temperature	−40°C to +70°C (non-icing)
Maximum Humidity	95% RH (non-condensing)

Certification & Approval

AS 7240.7	Point Type Smoke Detectors
AS 7240.13	Compatibility of Components
EN 54-27	Approved

Part Numbers

FWDDH-OPX	Duct Detector Housing including detector and base
DDH-ST-0.6	Duct Housing Sampling Tube 0.6M Long
DDH-ST-1.5	Duct Housing Sampling Tube 1.5M Long
DDH-ST-JOINER	150mm Aluminium Joiner to suit Sampling Tubes