

FF Data Sheet | Digital Addressable Detector

FWOPX

Advanced Point-Type Detector with Distributed Intelligence

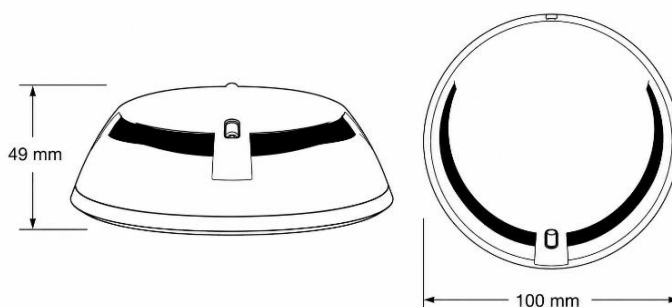
The FWOPX is a digitally intelligent optical smoke detector designed for use with Fusion AU AU-5000 control panels. Incorporating Distributed Intelligence Technology, it features bi-directional short circuit isolators and a built-in magnet test function to support efficient system design, fault tolerance, and simplified maintenance.

The FWOPX continuously monitors the environment for smoke particles and provides early fire detection using sophisticated internal algorithms to reduce false alarms.

It includes Drift Compensation, which automatically adjusts the detector's sensitivity to account for dust build-up. When contamination reaches 80% of the allowable threshold, a maintenance alert is triggered at the control panel.

An enhanced smoke inlet design and advanced Dust Restrict Chamber (DRC) technology ensure strong resistance to airborne contaminants while maintaining optimal detection performance. Its compact, low-profile design ensures an aesthetically pleasing installation.

Diagram



Key Features

- Multiple approved sensitivity settings
- Utilises Fusion's Digital Distributed Intelligence protocol with excellent noise immunity
- Advanced DRC (Dust Restrict Chamber) technology for enhanced false alarm resistance
- Dual bi-colour 360° LEDs for clear status visibility from any angle
- Bi-directional short circuit isolators for easier fault-finding and improved loop integrity
- Built-in magnet test feature for functional testing without disassembly
- Open-style base for fast installation and low-pressure locking
- Supports manual or auto addressing via the fire control panel or device programming tool

Specifications

Operating Voltage	18–40 V DC (operates down to 15 V without LED indication)
Average Standby Current	85 μ A @ 24 V DC
Remote Output Max Current	20 mA
Max Loop Addresses	240
Operating Temperature	–40°C to +70°C
Humidity (non-condensing)	up to 95% RH
Dimensions (H × D):	49 mm × 100 mm
IP Rating	IP40 (IP42 with silicone base gasket)
Weight (with standard base)	130 g

Certified & Approvals

AS 7240.7	Point Type Smoke Detectors
AS 7240.17	Short Circuit Isolators
AS 7240.13	Compatibility of Components
CertMark	Certificate Number PC10065