

D7050DH Addressable Photoelectric Duct Smoke Detector Head

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- ▶ Connects to the two-wire multiplex bus of the FPD-7024 and D7024 Addressable FACPs
- ▶ Superior dust immunity
- ▶ Exclusive Chamber Check self-diagnostics
- ▶ Automatic sensitivity test features
- ▶ Easy disassembly for cleaning

The D7050DH is designed for use with the D343 Duct Smoke Detector Housing.

The detector is a UL Listed, duct photoelectric smoke detector designed for use with commercial fire protective signaling systems and household fire warning systems (see NFPA 72, the National Fire Alarm Code). It is compatible with the FPD-7024 and D7024 Addressable Fire Alarm Control Panels (FACPs). It detects large smoke particles in air ducts by scattering light from a pulsed infrared source operating with a gated, high-speed, photodiode infrared sensor. The symmetry of the optical chamber allows 360° uniform smoke entry, but minimizes external light entry.

Functions

Detector Head and Housing System

The detector head is part of a compound system of detector head and housing. The detector housing installs on the duct and contains all the wiring. The detector head attaches to the housing by aligning the head with the housing and turning it clockwise. No

tools are required for installation other than the hex key used to tighten the tamper screw. Each detector head requires a D343 detector housing.

Chamber Check Selfdiagnostics

The detector meets NFPA guidelines for sensitivity testing, because you can visually inspect the detector and check the flash rate of the LED. If the calibration is out of factory-listed range, the LED on the detector double flashes once every 3 sec to 8 sec. Follow the instructions provided with the detector to clean it.

LED Operation

When the detector operates normally, the LED flashes once every 3 sec to 8 sec. In alarm, the detector flashes at least once per second.

Magnetic Test Feature

Test the detector's operation by placing the SMK-TM Test Magnet next to the detector's LED for three consecutive flashes. This causes the detector to send an alarm.

Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (UL268 and A), UROX7: Smoke - Automatic Fire Detectors Certified for Canada (cULus)
	CSFM	see our website
Hong Kong	HKFSD	

Installation/configuration notes

Compatible Products

The following products are compatible with the D7050DH Duct Smoke Detector:

Category	Product ID	Product Description
Control Panels	D7024	FACP
	D7024-EXP	FACP for export
Detector Bases	D343	Duct detector housing
Remote Annunciators	DRA-5	5 VDC remote annunciators

Parts included

Quantity	Component
1	Detector head
1	Lit pack – Installation Manual, Technical Service Note on installation

Technical specifications

Environmental Considerations

Radio Frequency Interference (RFI) Immunity:	No alarm or setup on critical frequencies in the range of 26 MHz to 950 MHz at 50 V/m
Temperature (normal operating):	+32°F to +100°F (0°C to +38°C)

Note: The environment where these detectors are installed must be within the specified normal operating temperature limits.

Mechanical Properties

Color:	Off-white
Dimensions (diameter x D):	4 in. x 1.3 in. (10.2 cm x 3.3 cm)
Material:	High-impact, fire-retardant ABS plastic

Power Requirements

Current (alarm and standby):	Refer to the <i>D343 Installation Instructions</i> (P/N: 48199)
Power-up Time:	22 sec maximum
Voltage (minimum):	8 VDC peak from the multiplex bus

Ordering information

D7050DH Addressable Photoelectric Duct Smoke Detector Head

Designed for use with the D343 Duct Smoke Detector Housing

Order number **D7050DH**

Accessories

DRA-5 Remote Annunciator (5 VDC)

Designed to provide remote annunciation of alarms for a number of Bosch smoke and heat detectors

Order number **DRA-5**

DT-2 Detector Removal Tool

Use the DT-2 to remove, replace, or test the detector head

Order number **DT-2**

SMK-TM Test Magnet

Used to test detectors

Order number **SMK-TM**

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