



DUCTSD

Conventional

Duct Smoke Detectors

System Sensor duct smoke detectors combine an impressive collection of innovations to greatly simplify HVAC system monitoring. One unit can accommodate multiple installation footprints to overcome mounting constraints. Tool-free, plug-in sampling tubes speed and simplify installation. Broad temperature and humidity ranges accommodate exposure to environmental extremes. Easily visible status indications, a readily accessible smoke test feature, and remote test station accessories simplify testing and maintenance. With unmatched flexibility, these detectors can adjust to fit any application.



D4120

Conventional Duct Smoke Detection Devices

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|-----------|---|
| D4120 | 4-wire photoelectric low-flow duct smoke detector, 24 VAC/DC, 120 VAC |
| D4240 | 4-wire photoelectric low-flow duct smoke detector, 24 VAC/DC, 240 VAC |
| DUCTSD | Standard 4-wire photoelectric duct smoke detector, 24 VAC/DC, 120 VAC |
| DUCTSD240 | Standard 4-wire photoelectric duct smoke detector, 24 VAC/DC, 240 VAC |
| D4S | 4-wire photoelectric sensor component only |
| D4P120 | 4-wire photoelectric power board component only, 24 VAC/DC, 120 VAC |
| D4120W | Watertight 4-wire photoelectric duct smoke detector |
| D2 | 2-wire photoelectric low-flow duct smoke detector |



2D51 4-wire Photoelectric Sensor Head

Photoelectric Low-Profile Plug-In Detector for Special Applications. For replacement purposes with 4-wire System Sensor duct smoke detectors.

Note: The 2D51 needs to be used with the D4P120 and B210LP for pendant mount applications.

- 4-Wire Photoelectric, integrated low-flow technology
- Air velocity rating from 100 ft/min to 4,000 ft/min (0.5 m/s to 20.32 m/sec)
- Versatile mounting options: square or rectangular configuration
- Plug-in sensor and latest sensor technology help prevent false alarms
- Integrated Smoke Test Port (DUCTSD only)
- Broad ranges for operating temperature (-4°F to 158°F) and humidity (0% to 95% non-condensing)
- Patented sampling tube installs from front or back of the detector with no tools required
- Increased wiring space with an additional 3/4-inch conduit knockout
- One easy-access Test/Reset button and improved LED status
- Patented interconnect feature for multi-fan shutdown
- High-contrast terminal designations
- Built-in short circuit protection from operator wiring errors
- Field-selectable settings for configuring the detector
- Two DPDT Form-C relay contacts
- 24 VAC/DC or 120 VAC
- Backward compatibility with existing System Sensor products, including remote accessories



Watertight

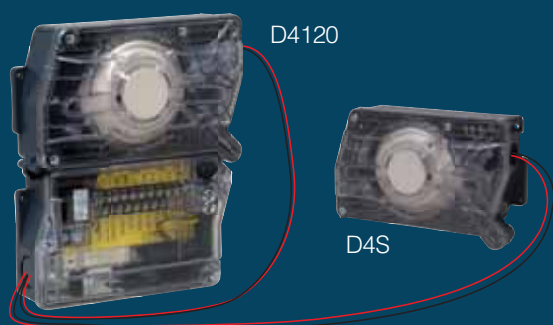
Duct Smoke Detectors

Is your HVAC installation on the rooftop? NEMA 4-rated System Sensor watertight duct smoke detectors operate in the most challenging conditions without costly and bulky enclosures. Watertight System Sensor duct smoke detectors (D4120W conventional, DNRW intelligent) include a UV-resistant housing that provides protection against dirt, rain, and other water sources, so you can mount these detectors on HVAC equipment in harsh environments while saving on materials and labor.

Watertight Duct Smoke Detectors

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| D4120W | Watertight 4-wire photoelectric duct smoke detector |
| DNRW | Watertight intelligent non-relay photoelectric low-flow duct smoke detector <i>*Detector head sold separately</i> |

2:1 Sensor-to-Power Board Configuration



The D4120 4-wire duct smoke detector has the ability to power two sensors from one power board. With its 2:1 sensor-to-power board capability, the power board of the D4120 may be used to monitor a second D4S sensor simultaneously. This is perfect for applications where monitoring both supply and return are required.

- NEMA Type 4 UL listed for non-hazardous indoor and outdoor applications
- UV Resistant, UL listed housing and cover material
- 4-Wire Photoelectric, integrated low-flow technology
- Air velocity rating from 100 ft/min to 4,000 ft/min (0.5 m/s to 20.32 m/sec)
- Versatile mounting options: square or rectangular configuration
- Plug-in sensor offers the latest sensor technology helps to prevent false alarms
- Broad ranges for operating temperature (–4°F to 158°F) and humidity (0% to 95% non-condensing)
- Patented sampling tube installs from front or back of the detector with no tools required
- Increased wiring space with additional 3/4-inch conduit knockout
- One easy-access Test/Reset button and improved LED status
- Patented interconnect feature for multi-fan shutdown
- New high contrast terminal designations
- Built-in short circuit protection from operator wiring errors
- Field-selectable settings for configuring the detector
- Two DPDT Form-C relay contacts
- 24 VAC/DC or 120VAC
- Backward compatibility with existing Innovair products, including remote accessories