

Conventional Fire Alarms

Duct Detectors, Two-Wire SuperDuct Series



Less than two inches deep, SuperDuct two-wire smoke detectors are suitable for installation in ductwork, where space is limited. SuperDuct detectors feature removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets to keep contaminants away from components. They include industry standard sampling tube mounting holes to simplify retrofit applications.

SuperDuct detectors use differential sensing to prevent gradual environmental changes from triggering false alarms. A rapid change in environmental conditions, such as smoke from a fire, causes the detector to automatically signal an alarm condition but dust and debris accumulated over time does not change alarm sensitivity.

The relay output may be configured for operation independent of the duct detector. A dedicated dirty/trouble LED on each unit offers immediate at-a-glance information even when the cover is closed.

Remote Test/Reset stations are available to provide alarm testing and indication from a remote location. Two-wire SuperDuct detectors are also compatible with EC-LED remote alarm LEDs.

Features and Specifications

Smoke Sensor

- PCB mounted photoelectric detector with onboard intelligence
- Environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity
- Wide 0.79% to 2.46% obscuration/ft. smoke sensitivity

Detector Assembly

- Less than 2" deep
- Status LEDs remain visible through clear assembly cover
- Cover monitor switch for added security
- Standard sampling tube spacing
- Sampling tube can be installed with or without the cover in place; can be rotated in 45° increments
- On-board Alarm, Trouble, and Dirty LEDs
- Magnet-activated test switch
- One Form C auxiliary alarm relay for controlling ancillary equipment (e.g., HVAC controls)
- Easy access to field connection terminals
- Operating temperature range: -4°F to 158°F (-20°C to 70°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Alarm Test Response Time	Alarm Impedance	Common Alarm Relay	Sensitivity	Reset Time
Two-wire Detector	SD-2W	16-30V DC	0.00007 A	0.005-0.1 A	5 sec.	50 to 750 Ohms	2 A @ 30V DC, Form C	0.79 to 2.46%/ft. obscuration	1 sec.



MEA

