

# 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	<b>SD-2W</b>	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



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#### Accessories

Description	Cat. No.
8-inch sampling tube	SD-T8
18-inch sampling tube	SD-T18
24-inch sampling tube	SD-T24
36-inch sampling tube	SD-T36
42-inch sampling tube	SD-T42
60-inch sampling tube	SD-T60
78-inch sampling tube	SD-T78
120-inch sampling tube	SD-T120
Protective housing for high humidity areas	SD-PH
Remote test station, magnetic	SD-TRM
Remote test station, keyed	SD-TRK
Remote LED indicator	EC-LED
Air velocity test kit (stoppers only, etc)	SD-VTK
Cover gasket kit	SD-GSK
Test magnet kit	SD-MAG
Replacement PCB, 2-wire sensor kit	SD-2WPCB



#### Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
SD-2W	2.40
SD-T8	0.50
SD-T18	1.50
SD-T24	2.70
SD-T36	3.00
SD-T42	3.50
SD-T60	5.80
SD-T78	7.50
SD-T120	11.50
SD-PH	5.50
SD-TRM	1.00
SD-TRK	1.00
EC-LED	1.00
SD-VTK	1.00
SD-GSK	0.50
SD-MAG	0.50
SD-2WPCB	1.00

