



# D340 Series Two-wire Duct Smoke Detector Housings



- ▶ For 1 ft (30.5 cm) to 10 ft (3 m) ducts with air velocity between 300 ft/min to 4000 ft/min (1.52 m/s to 20.3 m/s)
- ▶ Easy duct tube installation through the housing cuts installation time.
- ▶ Detector test and reset without removing covers
- ▶ Clear cover allows quick visual inspection
- ▶ Tube filters, dust immune smoke detector, and easy disassembly for cleaning reduce maintenance time and cost

The D340 Duct Smoke Detector Housings mount on the ducts of heating, ventilation, and air conditioning (HVAC) systems to monitor the presence of smoke in the conditioned air. The housing works with the D285DH Photoelectric Duct Smoke Detector Head.

The efficient housing design samples the air passing through a duct and detects potentially hazardous conditions. When smoke is detected, the detector sends an alarm signal to the control panel or HVAC control equipment that initiates the necessary action to control air handling systems.

## Functions

### Alarm and Trouble Indication

A D344-RT Remote Test Kit, a D344-RL Remote Indicator Kit, or a DRA-5 Remote Annunciator can provide remote LED indication of alarm and trouble status. The red LED lights for an alarm. An open loop causes the yellow Trouble LED to flash.

### Air Sampling

Use the D340 Duct Smoke Detector Housings in air handling systems with ducts between 1 ft (30.5 cm) and 10 ft (3.05 m) wide and air velocities between 300 ft/min and 4000 ft/min (1.52 m/s to 20.3 m/s). Air is forced into the detector through an air sampling tube, tested, and returned to the duct through an exhaust tube (supplied).

Sampling tubes should extend across the width of the duct. Bosch Security Systems, Inc. offers sampling tubes in three different sizes. Combine or cut the tubes to make other lengths. Sampling tubes over 3 ft (91.4 cm) must be supported at the end opposite the duct detector. Sampling tubes are provided with an end plug that must be installed in the open end.

### System Testing

Place an external magnet on the detector housing or switch a signal from a remote test station to test the system (requires an external 24 V supply).

Reset the system by power shutdown or if a D344-RT is connected, use the key-operated switch.

## Certifications and Approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (UL268andA), UROX7: Smoke - Automatic Fire Detectors Certified for Canada (cULus),
	CSFM	3240-1615: 184
Hong Kong	HKFSD	

**Installation/Configuration Notes**

**Compatible Products**

The following products are compatible with the D340 Two-wire Duct Smoke Detector Housings:

Category	Product ID	Product Description
Control Panels	Bosch makes no claims either written, oral, or implied that the D340 works with any control panel other than those listed in <i>Technical Service Note</i> (P/N: 31866).	
Detector Heads	D285DH	Photoelectric duct smoke detector head
Remote Annunciators	D344-RL	Remote indicator kit
	D344-RT	Remote test kit
	DRA-5	Remote annunciator (5 VDC)

**Power Considerations**

The D340 housing is designed for a two-wire power loop of 8.5 VDC to 32 VDC. If a remote annunciator is used, an external 24 VDC/VAC supply capable of supplying 170 mA is needed.

**Parts Included**

The D340 Two-wire Duct Smoke Detector Housing comes with:

Quant.	Component
1	D340 Duct Detector Housing
1	Exhaust tube
1	Cover gasket
2	Tube clamps with four screws
2	Foam gaskets
2	Air filters
1	Drilling template
1	Hardware pack
1	Literature pack

The D340P Photoelectric Duct Smoke Detector Kit comes with all components supplied with the D340 plus:

Quant.	Component
1	D285DH Photoelectric Duct Smoke Detector Head
1	D344-1.5 Sampling Tube

**Technical Specifications**

**Environmental Considerations**

Relative Humidity:	Up to 93% non-condensing
Temperature (operating):	+32°F to +120°F (0°C to +49°C)

**Mechanical Properties**

Dimensions (H x W x D):	6.5 in. x 15.5 in. x 4.25 in. (16.5 cm x 39.5 cm x 11 cm)
Material:	High-impact fire-retardant polymer plastic
Weight (housing only):	3.75 lb (1.7 kg)

**Outputs**

Alarm:	Depends on control panel that must limit the alarm output to 100 mA maximum
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**Power Requirements**

Current (alarm):	Depends on control panel that must limit the alarm current to 100 mA maximum
Current (standby):	0.12 mA maximum
Voltage (operating):	8.5 VDC to 32 VDC from control panel

**Ordering Information**

<b>D340 Duct Detector Housing</b> Duct detector housing with an exhaust tube, two tube clamps with screws, one cover and two foam gaskets, two air filters, a drilling template, installation instructions and mounting hardware.	<b>D340</b>
<b>D340P Photoelectric Duct Smoke Detector Kit</b> Kit comes with a D340 Duct Smoke Detector Housing, a D285DH Photoelectric Duct Smoke Detector Head, and a D344-1.5 Sampling Tube.	<b>D340P</b>
<b>D344-1.5 Sample tube</b> length 45.7 cm (1.5 ft)	<b>D344-1.5</b>
<b>D344-3 Sample tube</b> length 91.4 cm (3 ft)	<b>D344-3</b>
<b>D344-5 Sample tube</b> length 1.52 m (5 ft)	<b>D344-5</b>
<b>Accessories</b>	
<b>D344-TF Filter for Sample/Ventilation Tube</b> Replaceable filters for duct detector sampling tubes, available in packages of 20	<b>D344-TF</b>
<b>SMK-TM Test Magnet</b> Used to test detectors	<b>SMK-TM</b>

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