



## D293 Series Four-wire Detector Bases



- ▶ Variety of interchangeable smoke and heat detector heads
- ▶ Detector's head removes easily by twisting
- ▶ Two-piece detector head and base design allows pre-wiring the system
- ▶ Externally-powered sounder (85 dB at 10 ft [3 m])

The D293 Series includes the D293A Four-wire Detector Base with Auxiliary Form C Relay, the D293E Four-wire Power Supervision Detector Base, and the D293S Four-wire Detector Base with Sounder. Use these bases with smoke and heat detector heads to provide early fire warning for life safety and property protection systems. This base is compatible with a number of control panels and with the following Bosch Security Systems, Inc.'s' detector heads:

- D285 Photoelectric Smoke Detector Head
- D285TH Photoelectric Smoke Detector with Heat Sensor Head
- D286 Ionization Smoke Detector Head
- D603 Fixed-temperature (135°F [57°C]) and Rate-of-Rise Heat Detector
- D604 Fixed-temperature (135°F [57°C]) Heat Detector
- D605 Fixed-temperature (190°F [88°C]) Heat Detector

### 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	7300-1615: 133
	NYC-MEA	274-93-E, Vol. VII
	MSFM	

### Installation/Configuration Notes

#### Compatible Products

The following products are compatible with the D293 Series Four-wire Detector Bases:

Category	Product ID	Product Description
Control Panels	Compatible with all UL Listed four-wire control panels.	
Detector Heads	D285	Photoelectric smoke detector head
	D285TH	Photoelectric smoke detector head with heat sensor
	D286	Ionization smoke detector head
	D603	Fixed-temperature (135°F [57°C]) and Rate-of-Rise heat detector head

Category	Product ID	Product Description
	D604	Fixed-temperature (135°F [57°C]) heat detector head
	D605	Fixed-temperature (190°F [88°C]) heat detector head
Modules	D275	End-of-line (EOL) supervision module
Remote Annunciators	DRA-5	Remote annunciator

**Mounting Considerations**

Depending on local regulations, the bases can be surface mounted using anchors, mollies, or wing nuts. The bases can be directly mounted on single-gang switch boxes or mounted on four-inch octagonal electrical boxes using the supplied adaptor plate.

**Note** Ensure the volume of any electrical box used accommodates the number and size of conductors as specified by the National Electrical Code (NEC) or any local regulations having jurisdiction.

**EOL Supervision**

Use one D293E Base for the last detector on the loop or one D275 module per detector loop. Use the EOL resistor(s) specified by the control panel manufacturer.

**Parts Included**

Quant.	Component
1	D293A, D293E, or D293S Four-wire Detector Base
1	Adaptor plate (P/N: 18851)
1	Hardware pack
1	Literature pack

**Technical Specifications**

**Environmental Considerations**

Temperature (operating): +32°F to +100°F (0°C to +38°C)

**Mechanical Properties**

Dimensions (diameter): 6.375 in. (16.2 cm)

**Outputs (D293A)**

Alarm:	One normally-open (NO) relay
Auxiliary:	One set of Form C contacts rated for 62.5 VA, 0.5 A at 125 VAC and 30 W, 1.0 A at 30 VDC for resistive loads

**Outputs (D293E)**

Alarm:	One normally-open (NO) relay
Auxiliary:	One set of normally-open (NO) contacts rated for 62.5 VA, 0.5 A at 125 VAC and 30 W, 1.0 A at 30 VDC for resistive loads
EOL:	One EOL relay rated for 10 W, 0.5 A at 100 VDC for resistive loads

**Outputs (D293S)**

Auxiliary:	One set of normally-open (NO) contacts rated for 10 W, 0.5 A at 60 VDC for resistive loads
Sounder	Powered by external source

**Power Requirements (D293A)**

Current (alarm):	12 VDC: 58 mA 24 VDC: 62 mA 30 VDC: 75 mA maximum
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Current (standby):	0.12 mA maximum
Voltage (standby):	10 VDC to 30 VDC

**Power Requirements (D293E)**

Current (alarm):	12 VDC: 82 mA 24 VDC: 86 mA 30 VDC: 100 mA maximum
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Current (standby):	24 mA at 12 VDC and 24 VDC
Voltage (standby):	10 VDC to 30 VDC

**Power Requirements (D293S)**

Alarm Current (base):	12 VDC: 48 mA 24 VDC: 51 mA 30 VDC: 70 mA maximum
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Alarm Current (sounder):	12 VDC: 15 mA 24 VDC: 24 mA 30 VDC: 25 mA maximum
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Voltage (base):	10 VDC to 30 VDC
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Voltage (sounder):	12 VDC nominal, 10 VDC to 16 VDC; 24 VDC nominal, 18 VDC to 30 VDC
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