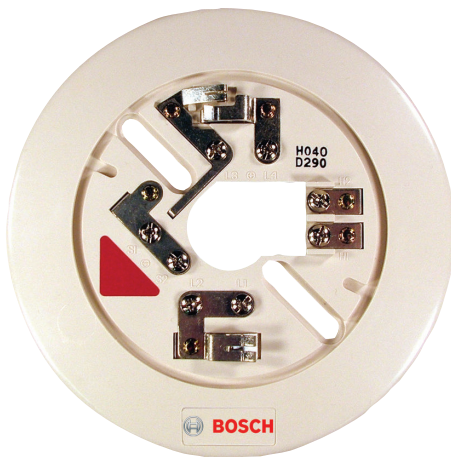# D290 Four-wire Detector Base (24 VDC)

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BOSCH
Invented for life

- ▶ 24 VDC, four-wire circuit compatibility
- ▶ Dual Form C relays
- ▶ Low profile construction
- ▶ Easy to install and service
- ▶ Molded in UL Listed white ABS plastic

Use the D290 Detector Base where the specifications call for a 24 VDC, four-wire photoelectric smoke detector. When using the detector base, a single pair of wires is run for the initiating circuit and another pair is run for the power. The power circuit connects to the power supply of the control panel or an auxiliary UL Listed power supply. A D275 Power Supervision Module must be installed after the last detector base on each power circuit to properly supervise the circuit voltage.

Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (ANSI\UL 268)
	CSFM	see our website
	NYC-MEA	284-91-E, Vol. II

Installation/configuration notes

Compatible Products
The following products are compatible with the D290 Four-wire Detector Base:

Category	Product ID	Product Description
Control Panels		Compatible with all UL Listed four-wire control panels.
Detector Heads	D254	Fixed-temperature(+135℉ [+57℃]) heat detector
	D255	Fixed-temperature (+190℉ [+88℃]) heat detector
	D256A	Rate-of-Rise and fixed-temperature (+135℉ [+57℃]) heat detector
	D257A	Rate-of-Rise and fixed-temperature (+190℉ [+88℃]) heat detector
	D282A	Photoelectric smoke detector head
	D283A	Photoelectric smoke detector head with fixed-temperature (135℉ [57℃]) heat sensor
Modules	D275	Power supervision module

Mounting
The detector base mounts on standard four-inch octagonal or four-inch square electrical back boxes.

ℹ **Notice**
Mounting boxes installed in plenums, pressurized stairwells, or other air spaces must follow all applicable codes and the requirements of the authority having jurisdiction (AHJ).

Wiring
For detailed wiring requirements, see the *D250A-D290 Series installation instructions*.

Parts included

Quant.	Component
1	D290 detector base
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Current (alarm):	43 mA
Current (standby):	0.035 mA to 0.055 mA; depends on detector head
Voltage (operating):	17.7 VDC to 30 VDC

Environmental

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

Mechanical

Color:	Bone white
Dimensions (diameter x D):	5.9 in. x 1 in. (15.1 cm x 2.5 cm)

Outputs

Alarm:	Two Form C relays with contacts rated for 2 A at 30 VDC, 1 A at 125 VAC for resistive loads

Ordering information

D290 Four-wire Detector Base (24 VDC)
24 VDC, four wire circuit compatibility
Order number **D290**