

# D298 Four-wire Addressable Detector Bases (24 VDC)

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- ▶ Low-profile modular design
- ▶ Addressable application
- ▶ Data In and Data Out terminals
- ▶ Easy head removal for cleaning and servicing

The D298M Master Detector Base and the D298S Detector Base are used with smoke and heat detector heads to provide early warning fire detection for life safety and property protection systems. The D298M and D298S are 24 VDC bases for use in systems controlled by either:

- a D7412G (or newer) or D9412G (or newer) control panel with a D8125 POPEX Module and 24 VDC auxiliary power supply, or
- a D9124 Fire Alarm Control Panel (FACP)

The D298M provides individual addresses on the FACP data expansion circuit and accepts the D285/D285TH Photoelectric Smoke Detector Heads, the D286 Ionization Smoke Detector Head, or the D603, D604, and D605 Heat Detector Heads. It connects to the D263 Photoelectric Smoke Detector or the D263TH Photoelectric Smoke Detector with fixed-temperature (135°F [57°C]) heat sensor. It also acts as the master in a slave circuit consisting of up to 19 D287 or D288 Two-wire Detector Bases with D285/D285TH Photoelectric Smoke Detector Heads, D286 Ionization Smoke Detector Heads, or D603, D604, or D605 Heat Detector Heads. The D298M needs a 3 kΩ end-of-line resistor (P/N: F01U008725) to complete the circuit and provide supervision.

The D298S has a built-in POPIT to provide individual addresses on the FACP data expansion circuit and accepts the D285 Series Photoelectric Smoke Detector Heads and the D603, D604, and D605 Heat Detector Heads. When used with the D285 Series detector heads, the D298S indicates Chamber Check trouble to the control panel through the POPIT bus. The Chamber Check trouble indication appears on the keypads as a fire trouble.

These detector bases use the PAM-4 Relay Module to provide two Form C dry contact auxiliary outputs. Removing a detector head from an active polling circuit sends a trouble signal to the control panel, but does not interrupt the polling circuit.

## Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (ANSI/UL 268)
	CSFM	see our website
	NYC-MEA	12-92-E, Vol. X

## Installation/configuration notes

### Compatible Products

The following products are compatible with both the D298M Master Detector Base and the D298S Detector Base:

Category	Product ID	Product Description
Control Panels	G Series <sup>1</sup>	Addressable Control Panels
Panels	D9124	Addressable FACP
Detector Heads	D285	Photoelectric smoke detector head
	D285TH	Photoelectric smoke detector head with fixed-temperature (+135°F [+57°C]) heat sensor
	D286	Ionization smoke detector head
	D603	Rate-of-Rise heat detector
	D604	Fixed-temperature (+135°F [+57°C]) heat detector
	D605	Fixed-temperature (+190°F [+88°C]) heat detector

<sup>1</sup> Includes the D7412G (and newer) and D9412G (and newer) control panels

The following products are also compatible with the D298M Master Detector Base:

Category	Product ID	Product Description
Detector Bases	D287	Two-wire detector base
Bases	D288	Two-wire detector base
Detectors	D263	Photoelectric smoke detector head
	D263TH	Photoelectric smoke detector head with fixed-temperature (+135°F [+57°C]) heat sensor

### Mounting

These bases mount on a single-gang switch box or on standard three-inch and four-inch square or octagonal back boxes. An adapter plate is packaged with the base.

### Wiring

The D298M and D298S bases accept any solid wire from 12 AWG to 24 AWG (ISO 4 mm<sup>2</sup> to 0.2 mm<sup>2</sup>). The minimum wire size depends on the number of bases used and the distance from the FACP to the farthest base. For specific wiring requirements, see the *D278S/D298S Installation Instructions* or the *D298M Installation Instructions*.

## Parts included

### D298M Master Detector Base

Quant.	Component
1	D298M detector base
1	EOL resistor (P/N: F01U008725)

1	Adapter plate (P/N: 18851)
1	Hardware pack
1	Literature pack

### D298S Detector Base

Quant.	Component
1	D298S detector base
1	Adapter plate (P/N: 18851)
1	Hardware pack
1	Literature pack

## Technical specifications

### Electrical (Auxiliary Supply)

#### Current (alarm)

D298S:	18 mA maximum
D298S with PAM-4 Relay:	30 mA
D298M <sup>1</sup> :	36 mA maximum
D298M <sup>1</sup> with PAM-4 Relay:	49 mA

#### Current (standby)

D298S:	2 mA
D298S with PAM-4 Relay:	8.5 mA
D298M <sup>1</sup> :	13 mA
D298M <sup>1</sup> with PAM-4 Relay:	29 mA
Voltage (operating):	18.9 VDC to 28.0 VDC

<sup>1</sup> The current ratings are based on D298M with 19 detectors.

### Environmental

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

Color:	Bone white
Dimensions (diameter x D):	6.375 in. x 0.9 in. (16.2 cm x 2.3 cm)

## Ordering information

### D298M Master Detector Base

Provides individual addresses on the FACP data expansion circuit and accepts the D285/D285TH Photoelectric Smoke Detector Heads, the D286 Ionization Smoke Detector Head, or the D603, D604, and D605 Heat Detector Heads.

Order number **D298M**

### D298S Detector Base

Used as a stand-alone addressable base

Order number **D298S**

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**Accessories**

**PAM-4 Relay Module**

One set of 10.0 A, Form C contacts that can be energized across a range from 9 VDC to 40 VDC

Order number **PAM-4**

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