

D278S Four-wire Addressable Detector Base (12 VDC)

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

Use the D278S Four-wire Addressable Detector Base with smoke and heat detector heads to provide early warning fire detection for life safety and property protection systems. The detector base is a 12 VDC base for use in systems controlled by a D7412G or D9412G 12 VDC Control Panels with a D8125 POPEX Module. The detector base has a built-in POPIT to provide individual addresses on the FACP data expansion circuit.

The detector base accepts the D285/D285TH Photoelectric Smoke Detector Heads, the D286 Ionization Smoke Detector Head, and the D603, D604, and D605 Heat Detector Heads. When used with the D285 detector heads, the detector base 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.

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 the D278S Four-wire Addressable Detector Base:

| Category | Product ID | Product Description |
|----------------|------------|---|
| Control Panels | D7412G | Addressable control panel |
| | D9412G | Addressable control panel |
| 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 |

| | |
|------|--|
| D603 | Rate-of-Rise heat detector |
| D604 | Fixed-temperature (+135°F [+57°C]) heat detector |
| D605 | Fixed-temperature (+190°F [+88°C]) heat detector |

Mounting

The detector base mounts 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 detector base accepts any wire from 12 AWG to 24 AWG (ISO 4 mm² to 0.2 mm²). The minimum wire size depends on the number of bases used and the distance from the FACP to the furthestmost base. For specific wiring requirements, see the *D278S/D298S Installation Instructions*.

Parts included

| Quant. | Component |
|--------|----------------------------|
| 1 | D278S detector base |
| 1 | Adapter plate (P/N: 18851) |
| 1 | Hardware pack |
| 1 | Literature pack |

Technical specifications

Electrical (Auxiliary Supply)

| | |
|----------------------|---------------------|
| Current (alarm): | 40 mA |
| Current (standby): | 2.5 mA |
| Voltage (operating): | 9.6 VDC to 13.9 VDC |

Environmental

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

Mechanical

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

Ordering information

D278S Four-wire Addressable Detector Base (12 VDC)

A 12 VDC base with a built-in POPIT for use in systems controlled by a D7412G or D9412G 12 VDC Control Panel with a D8125 POPEX Module
Order number **D278S**

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