

# D282A-DH Replacement Duct Smoke Detector Head (24 VDC)

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- ▶ 24 VDC replacement detector head for D300A and D300A-HV Conventional Duct Detector Housings
- ▶ Easy head removal for cleaning and servicing
- ▶ Flashing LED power on indicator

The D282A-DH Replacement Duct Smoke Detector Head detects the large smoke particles which typically result from wood, paper, and fabric combustion. It is a conventional 24 VDC photoelectric smoke detector head for use with the D300A and D300A-HV conventional duct detector housing units.

It uses an infrared (IR) LED light source and a silicon photo diode to measure light reflected from particulates in a detection chamber. After two consecutive measurements exceeding the threshold level, the unit signals an alarm condition. The detection chamber, designed for reliable smoke entry characteristics, is protected by a micro-fine insect screen to minimize nuisance alarms.

The sensitivity stability and high signal-to-noise ratio of this detector permits its use in a wide range of environmental conditions. The detector head has a moisture-proof reed switch that reacts to an external magnet for testing. The magnet test simulates a 4% to 6% smoke obscuration, which places the detector in an alarm condition. This test is especially useful in environmentally unstable or clean areas.

There are built-in LEDs that flash to indicate the unit is powered. The LEDs latch on steady in an alarm condition.

## Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (UL268 and A)
	CSFM	see our website
Hong Kong	HKFSD	J-005/C/026

## Installation/configuration notes

### Compatible Products

The following products are compatible with the D282A-DH Replacement Duct Smoke Detector Head:

Category	Product ID	Product Description
Control Panels	D7022	Two-zone FACP
	D7024	Conventional FACPs
	D7024-EX P	Conventional FACPs for export
Detector Housings	D300A	Duct smoke detector with housing
	D300A-HV	High-voltage duct smoke detector with housing

## Installation

The D282A-DH installs quickly and easily into the D300A and D300A-HV. Remove the four screws that hold the housing unit's cover in place, twist the existing detector head counter-clockwise to remove it, insert the replacement head, turn it clockwise, replace the housing unit's cover and tighten the screws.

## Parts included

Quant.	Component
1	D282A-DH replacement detector head
1	Literature pack

## Technical specifications

### Environmental Considerations

Relative Humidity:	10% to 85% non-condensing
Temperature (operating):	+32°F to +120°F (0°C to +49°C)

### Mechanical Properties

Color:	Bone white
Dimensions (diameter):	4 in. (10.2 cm)

### Power Requirements

#### Current

Alarm:	Depends on housing; refer to the D300A or D300A-HV specifications
Standby:	0.045 mA
Surge:	0.16 mA

#### Voltage

Operating:	15.0 VDC to 33.0 VDC
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## Ordering information

### D282A-DH Replacement Duct Smoke Detector Head (24 VDC)

Detects the large smoke particles which typically result from wood, paper, and fabric combustion

Order number **D282A-DH**

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