

# D265AW Photoelectric Smoke Detector Head

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 12 V or 24 V inputs
- ▶ Mounts on low profile 6 in. (15 cm) base
- ▶ Easy head removal for cleaning and servicing
- ▶ Maintenance-free operation
- ▶ Built-in sensitivity test

The D265AW Photoelectric Smoke Detector detects the large smoke particles that typically result from wood, paper, and fabric combustion. Offices, warehouses, hotels and health care facilities are applications generally specified for photoelectric detectors.

This detector has two components: the detector base and the detector head. The base is permanently attached and wired to a back box. The interchangeable heads quickly detach for replacement and cleaning without affecting circuit wiring.

The D265AW Detector Head attaches to the D261AW Detector Base.

## Functions

### Detection chamber operation

The detector uses an infrared (IR) LED light source and a silicon photodiode to measure light reflected from particulates in a detection chamber. After two consecutive measurements exceeding the threshold level, the device signals an alarm condition to the panel.

The detection chamber, designed for reliable smoke entry characteristics, is protected by a micro-fine insect screen to minimize the possibility of nuisance alarms.

The sensitivity stability and high signal-to-noise ratio of the detector permits its use in a wide range of environmental conditions.

### LEDs

The detector has two built-in LEDs that flash green to indicate the device is powered, flash red to indicate the detector is outside its sensitivity limits, and latch on steady red in an alarm condition.

### Testing

The detector 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 unclean areas.

## Certifications and approvals

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

## Installation/configuration notes

### Mounting

The detector head is part of a compound device. The detector base contains all the wiring. The detector head attaches to the base by aligning the head with the base and turning it clockwise. No tools are required for installation other than the hex key used to tighten the tamper screw.

### Wiring

For detailed wiring requirements, see the *D261AW Detector Base Datasheet*.

## Parts included

Quantity	Component
1	Detector head with dust cover

## Technical specifications

### Environmental Considerations

Temperature (operating):	+32°F to +120°F (0°C to +49°C)
--------------------------	--------------------------------

### Mechanical Properties

Dimensions (diameter x D):	4 in. x 1.25 in. (10.2 cm x 3.2 cm)
----------------------------	-------------------------------------

### Power Requirements

Current (alarm):	150 mA maximum
Current (standby):	0.038 mA at 12 VDC 0.055 mA at 24 VDC
Current (surge):	0.2 mA
Voltage (input):	12 VDC or 24 VDC nominal; 8 VDC to 35 VDC operating range

## Ordering information

### D265AW Photoelectric Smoke Detector Head

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

Order number **D265AW**

**Represented by:**

**Americas:**

Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
security.sales@us.bosch.com  
www.boschsecurity.us

**Europe, Middle East, Africa:**

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**

Robert Bosch (SEA) Pte Ltd, Security  
Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

**China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

**America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com