

D256A Fixed-temperature (135°F [57°C]), Rate-of-Rise Heat Detector Head

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Invented for life



- ▶ Mounts on low-profile six-inch diameter base
- ▶ Easy head removal for cleaning and servicing
- ▶ Available in 24 VDC, 135°F (57°C) or 190°F (88°C) fixed settings
- ▶ Dual built-in power and alarm LEDs viewable from 360°
- ▶ Highly stable operation and RF/Transient protection

Use these detectors for indoor confined areas where high heat-output fires are expected, or in areas where ambient conditions do not allow the use of other detection methods.



Notice

These heat detectors are intended for detection circuits that protect property. Use smoke detectors to protect personnel.

Use the D256A (response-rated at 135°F [57°C]) in areas where the ambient temperatures do not exceed 120°F (49°C).

Functions

Detector Head and Base System

These heat detectors have two components: the detector base and the detector head. The bases are permanently attached and wired to back boxes. The interchangeable heads quickly detach for replacement and cleaning without affecting the circuit wiring.

Detection Method

The heat detectors performs the same function as a mechanical heat sensing device, but with electronic precision. The detector sends an alarm signal when it

reaches its fixed temperature value or when the temperature rises more than 12°F (6.6°C) in less than a minute. When an alarm signal is sent, the red alarm LEDs latch on.

The thermistor heat element used in the detector is protected from damage by the built-in, durable plastic guard.

Certifications and approvals

Region	Certification
USA	UL UQGS_S4990 - Heat-automatic Fire Detectors
	CSFM see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the heat detector heads:

Category	Products
Control Panels	D7022 Conventional Fire Alarm Control Panel
	D7024 Conventional and Addressable Fire Alarm Control Panels

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	FPD-7024 Conventional and Addressable Fire Alarm Control Panels
	D9124 Addressable Fire Alarm Control Panel
	D9412, D7412, D7212 Control Panels
	G Series Control Panels ¹
	D9112 Addressable Control Panel
Detector Bases	D250A Two-wire Detector Base (12 VDC or 24 VDC)
	D280A Two-wire Detector Base (24 VDC)
	D290 Four-wire Detector Base (24 VDC)
	D291 Series Detector Bases ²

¹ G Series = D9412G, D7412G, D7212G, D9412GV2, D7412GV2, D7212GV2, D9412GV3, D7412GV3, D7212GV3, D9412GV4, D7412GV4, and D7212GV4

² D291 Series = D291M Master Addressable Detector Base (24 V) and D291S Addressable Detector Base (24 V)



Notice

These heat detectors do not operate on standard 12 VDC two-wire loops; they require 24 VDC. When used with 12 VDC control panels, a UL Listed 24 VDC auxiliary power supply is required.

Mounting

The detector base installs over a back box and contains all the wiring. The detector head attaches to the base by hand 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

Refer to the installation instructions for the specific base for detailed wiring requirements.

Parts included

Quant.	Component
1	Detector head
1	Literature pack

Technical specifications

Electrical

Current (alarm):	150 mA at 24 VDC
Current (supervisory):	0.04 mA at 24 VDC
Current (surge):	0.160 mA at 24 VDC
Voltage (operating):	15.0 VDC to 33.0 VDC

Environmental

Temperature (ambient):	+32°F to +120°F (0°C to +49°C)
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Note: The normal environment where these detectors are installed should be within the specified ambient temperature limits.

Mechanical

Color:	Bone white
Dimensions (diameter x D):	6 in. x 2 in. (15.2 cm x 5 cm)

Ordering information

D256A Fixed-temperature (135°F [57°C]), Rate-of-Rise Heat Detector Head

Fixed-temperature (135°F [57°C]), rate-of-rise mechanical heat detector head for use in 12 VDC or 24 VDC nominal circuits; requires a base. Order number **D256A**

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