

D254/D255 Fixed-temperature Heat Detector Heads

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Use the D254 and D255 Fixed Temperature Heat Detectors for indoor confined areas where a fire increases air temperature slowly and where there is a substantial increase in air temperature before the fire breaks confinement. Furnace rooms, closets, bathrooms, and other confined areas are appropriate applications for fixed temperature detectors.



Notice

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

Use the D254 (response-rated at 135°F [57°C]) in areas where the ambient temperatures do not exceed 100°F (38°C). Use the D255 (response-rated at 190°F [88°C]) in areas where the ambient temperatures do not exceed 150°F (66°C).

These detectors operate in 12 and 24 VDC detection circuits using a variety of Bosch detector bases. A latching steady-on LED is available when these heads are used with the D253 24 VDC base or the D271S 12 VDC base.

- ▶ Mounts on low-profile six-inch diameter base
- ▶ Easy head removal for cleaning and servicing
- ▶ Available in 135°F (57°C) or 190°F (88°C) fixed settings
- ▶ Optional latching alarm LED
- ▶ Tamper-resistant locking base

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

These heat detectors use a push-rod activated by a bimetal disk to manually close internal contacts and initiate an alarm condition. The disk, which deflects at a pre-determined temperature, snaps back to its original shape when the temperature drops, opening the contacts and canceling the alarm signal. This simple design results in stable detectors that are dependable and have a long operational life. They are unaffected by barometric pressure and air flow and remain reliable over a wide range of conditions.

Certifications and approvals

Region	Certification	
USA	UL	UQGS: Heat - Automatic Fire Detectors (UL521)
	CSFM	see our website
	NYC-MEA	284-91-E, Vol. 2

Installation/configuration notes

Compatible Products

The following products are compatible with the D254 and D255 Heat Detector Heads:

Category	Product ID	Product Description
Control Panels	D7022	Conventional FACP
	D7024	Conventional FACP
	D7024	Addressable FACP
	D9124	Addressable FACP
Detector Bases	D250A	Two-wire conventional detector base (12 VDC or 24 VDC)
	D253	Two-wire conventional detector base (24 VDC)
	D271S	Addressable smoke and heat detector base (12 VDC)
	D291M	Master addressable detector base (24 VDC)
	D291S	Addressable detector base (24 VDC)

Mounting

The detector base installs over a back box and contains all the wiring. The detector head attaches to the base by hand. Align the head with the base and turn 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	D254 or D255 detector head
1	Hardware pack
1	Literature pack

Technical specifications

Environmental Considerations

Temperature (ambient):	D254: +32°F to +100°F (0°C to +38°C) D255: +32°F to +150°F (0°C to +66°C)
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Mechanical Properties

Color:	Bone white
Dimensions (diameter x D):	6 in. x 2 in. (15.2 cm x 5 cm)
Response Time:	<120 sec

Power Requirements

Voltage (operating):	12 VDC or 24 VDC
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Ordering information

D254 Fixed-temperature (135°F [57°C]) Heat Detector Head

Fixed-temperature (135°F [57°C]) mechanical heat detector head for use in 12 VDC or 24 VDC nominal circuits; requires a base.
Order number **D254**

D255 Fixed-temperature (190°F [88°C]) Heat Detector Head

Fixed-temperature (190°F [88°C]) mechanical heat detector head for use in 12 VDC or 24 VDC nominal circuits; requires a base.
Order number **D255**

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