

Edwards® 280B-PL Series Rate-of-Rise and Fixed Temperature Heat Detectors



Features

- Low profile with wide base
- Positive fixed temperature operating indication
- On site testing of rate-of-rise feature

Description

The 280B-PL Series heat detectors offer fixed temperature or combination rate-of-rise and fixed temperature features. The heat detector is available with a white plastic reversible mounting plate. The plastic plate can be used for either flush or surface mounting. It includes a white skirt which covers the space between detector base and the mounting surface.

Agency Approvals

- UL Listed
- FM Approved
- CSFM Listed

Specifications

- Single circuit normally open contact rated at 3 amps at 6 to 125V AC; 1.0 amps at 6 to 28V DC, 0.3 amps at 125V DC, and .01 amps at 250V DC
- Maximum coverage 2,500 sq. ft. (232.25 sq. m)*
- UL spacing: 50 ft (15.24m)
- FM spacing: 30 ft (9.14m)
- Maximum distance from wall or ceiling projection extending down more than 12" (305mm) - 25 ft (7.62m)
- Color - white

See System Design Criteria on page 12-51

*NOTE: Maximum detector coverage has been determined by UL to provide detection time equal to sprinkler devices spaced at 10 ft (3.05m) intervals on a smooth ceiling 15 feet 9 inches (4.8m) high. Higher ceilings may adversely affect detection time. Earlier detection may be obtained by reducing the spacing between detectors. (See NFPA 72, Chapter 5)

Installation

Twists and locks onto mounting plate. Mounting plate may be surface mounted or mounted onto any 3 1/4" (83mm) or 4" (102mm) octagon box.

Applications

Consult NFPA 72, National Fire Alarm Code, for complete application guidelines.

WARNING: This device does not protect life against fire and smoke. In most fires, hazardous levels of smoke, heat and toxic gases can build up before a heat detector would initiate an alarm. Independent studies indicate that heat detectors should only be used when property protection alone is involved. In cases where life safety is a factor, the use of smoke detectors is recommended. The intended use of the Edwards 280B-PL Series Heat Detector is to provide one source of information that is supplemental to smoke detection to increase the probability that an early warning will be provided so that property can be safeguarded. Heat detectors do not always detect fires because the fire may be a slow smoldering, low heat type (produc-

Cat. No.	Description	Rate-of-Rise Rating	UL Temp. Rating °F	UL Max. Ambient Ceiling Temp. Rating °F
281B-PL	ROR & Fixed	15°F/min.	135	100
282B-PL	ROR & Fixed	self-restoring	194	150
283B-PL	Fixed	—	135	100
284B-PL	Fixed	—	194	150

ing smoke) or because they may not be near where the fire occurs, or because the heat of the fire may bypass them. This detector will not detect oxygen levels, smoke, toxic gases, or flames. Accordingly, this device should only be used as part of a broadly based program of fire safety which would include a variety of sources of information on heat and smoke levels, visual sighting of the fire, extinguishment systems, and other safety measures.

If they are spaced in accordance with the table on page 12-21, they can contribute, within an overall fire

safety program, to reducing the risk of avoidable property losses. Under no circumstances should these devices be relied on as the sole measure to ensure fire safety. Danger will result if these devices are relied on to any degree for the protection of human life.

WARNING: This device does not contain any built-in signal. Alarm signals can only be generated by interconnection with separately installed signaling devices.

WARNING: This device will not operate without electrical power, and fires often cause cutoffs of electrical

power. This device does not contain a battery backup power supply. If the electrical circuit feeding the device is cut, or is not providing power for any reason, this device will not detect heat or provide any warning of a possible fire. Nor will it provide any warning that it is not functioning.

WARNING: The rate-of-rise feature on the Edwards 280B-PL Series Heat Detector is subject to failure over time. The rate-of-rise feature should be tested by a qualified fire protection specialist annually to ensure that it is in working order.

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