

### WARNINGS, continued

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

3. **DANGER** - 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.

4. **DANGER** - The rate-of-rise feature on the 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. A plastic shield, part number P-847567-0017, is available to protect the fixed temperature element of the 281B and 282B series heat detectors during rate-of-rise testing. The testing procedure for the rate-of-rise feature is specified in the "Maintenance and Testing" section of instruction sheet P-847550-0820 supplied with this device. If a fire protection specialist is not available to conduct this testing procedure, you should contact your Edwards representative to arrange to have these important tests performed.

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**EDWARDS**

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Issue 1

### SPECIFICATIONS AND PRECAUTIONARY INFORMATION FOR THE 280B SERIES HEAT DETECTORS



(NOT A LIFE SAFETY DEVICE - USE FOR PROPERTY PROTECTION ONLY)

**READ THE INSTRUCTIONS SUPPLIED (P-847550-0820)  
BEFORE INSTALLING THIS DEVICE**

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SPECIFICATIONS TABLE				
Catalog Number (see note <u>A</u> )	281B	282B	283B	284B
UL Temperature Rating	135°F	194°F	135°F	194°F
Feature(s)	Fixed Temperature and Rate-of-Rise		Fixed Temperature Only	
UL Maximum Ambient Temperature at Ceiling	100°F	150°F	100°F	150°F
UL Recommended Coverage (see note <u>B</u> )	2500 Square Feet			
UL Recommended Spacing	50 Feet			
Maximum Distance from Wall - (see note <u>C</u> )	25 Feet			
All detectors have one normally open contact rated as follows: 3.0A at 6 to 125Vac, 1.0A at 6 to 24Vdc, 0.3A at 125Vdc, and 0.1A at 250Vdc.				
<p><b>NOTE A</b> - A catalog number ending with -PL indicates detector is supplied with reversible plastic mounting plate.</p> <p><b>NOTE B</b> - Maximum detector coverage has been determined by UL to provide detection time equal to sprinkler devices spaced at 10-ft intervals (100 square foot area) on a smooth ceiling 15 ft 9 in high. Higher ceilings can adversely affect detection time. In some instances, earlier detection may be obtained by reducing the spacing between detectors. See the latest edition of the NFPA 72E, Automatic Fire Detectors.</p> <p><b>NOTE C</b> - Maximum distance shown is from any wall partition or ceiling projection extending down more than 12 inches.</p>				

## WARNINGS

**1.** 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 operate. 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 this 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 (producing 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 a 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 directions in the "Specifications Table" 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.