

# B4X-15140 and B7-15140

## Adjustable Ambient Control Thermostats

## Product Specifications

### Application . . .

#### Electric Heat Tracing Control

The B4X-15140 and B7-15140 are designed to provide ambient sensing control of electric heat tracing circuits for freeze protection of piping and vessels. These adjustable thermostats can be used to control a single heating circuit or as pilot control of a contactor switching multiple heat tracing circuits.

**B4X-15140 . . .** An epoxy polyamide coated die-cast aluminum NEMA 4X enclosure provides watertight, dusttight and corrosion-resistant protection to the thermostat switch.

**B7-15140 . . .** An aluminum lacquer finished die-cast aluminum enclosure provides NEMA 4 (watertight and dust-tight) and NEMA 7/NEMA 9 (explosionproof) protection to the thermostat switch. The tamper-resistant, threaded and gasketed aluminum dial cover is externally adjustable.

The B4X-15140 thermostat is approved for use in ordinary (nonclassified) locations. The B7-15140 is approved for use in both ordinary (nonclassified) and hazardous (classified) locations.

### Ratings/Specifications . . .

Voltage rating.....	125/250/480 Vac
Switch rating.....	22 amps
Switch type .....	SPDT <sup>1</sup>
Electrical connection	
B4X-15140 <sup>2</sup> .....	screw terminals on switch
B7-15140 <sup>3</sup> .....	terminal blocks
Adjustable control range .....	15°F to 140°F (-9°C to 60°C)
Maximum control differential .....	6°F (3.3°C)
Setpoint repeatability.....	±2°F (1.1°C)
Maximum bulb exposure temperature.....	650°F (343°C)
Bulb dimensions .....	9/16" x 3" (14 x 76 mm)
Bulb material.....	stainless steel

### Notes . . .

1. See back for typical wiring diagram.
2. The B4X-15140 utilizes a 1/2" NPT conduit hub with an internal grounding terminal.
3. The B7-15140 utilizes a 3/4" NPT conduit hub with an internal grounding terminal.



B4X-15140



B7-15140

### Certifications/Approvals . . .



#### Underwriters Laboratories Inc.

Ordinary Locations  
Hazardous (Classified) Locations (B7-15140 only)  
Class I, Divisions 1 & 2, Groups B, C and D  
Class II, Divisions 1 & 2, Groups E, F and G  
Class III, Divisions 1 and 2  
Class I, Zone 1, Group IIB + H, T6



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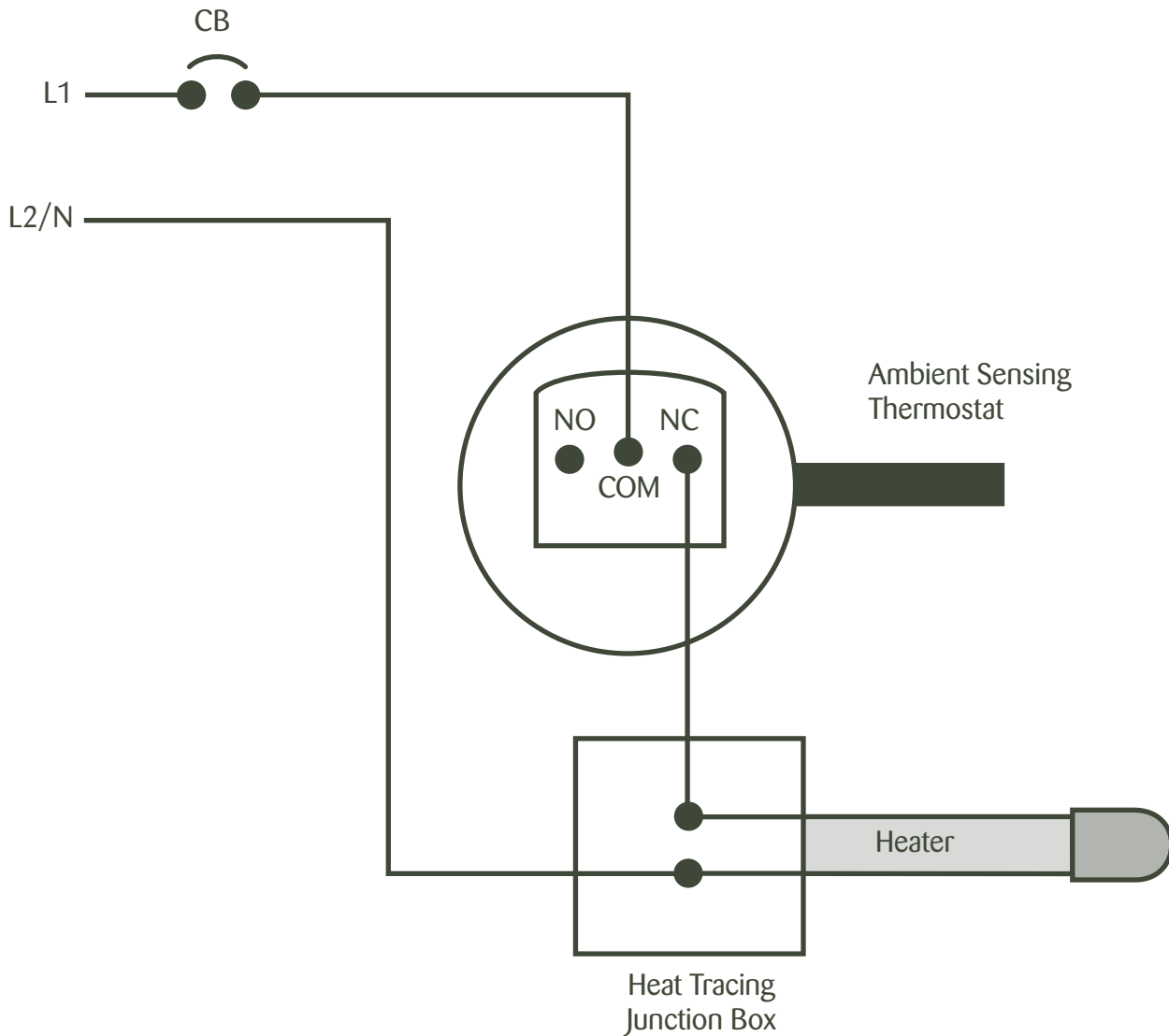
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### Typical Wiring Diagram<sup>1</sup> . . .



#### Notes . . .

1. The National Electrical Code, Article 427-56(b) states: "Temperature- controlled switching devices which do not have an "off" position shall not be required to open all ungrounded conductors and shall not be permitted to serve as the disconnecting means." The B4X/B7-15140 thermostats have no "off" position and therefore may be used for switching one conductor of a two-phase heating circuit.

