

B7-15140

Adjustable Ambient Control Thermostat

Product Specifications

Application . . .

Electric Heat Tracing Control

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

B7-15140 . . . An aluminum lacquer finished die-cast aluminum enclosure provides watertight and dust tight protection (per IP66) and is Exd IIC T6 rated. The tamper-resistant, threaded and gasketed aluminum dial cover is externally adjustable.

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

Ratings/Specifications . . .

Voltage rating	125/250/480 Vac
Switch rating	22 amps
Switch type	SPDT ¹
Electrical connection ²	terminal blocks
Adjustable control range	-9°C to 60°C
Maximum control differential	3.3°C
Setpoint repeatability	±1.1°C
Maximum bulb exposure temperature	71°C
Bulb dimensions	14 x 76 mm
Bulb material	stainless steel

Notes . . .

1. See back for typical wiring diagram.
2. The B7-15140 utilizes a 3/4" NPT conduit hub with an internal grounding terminal. The external bonding terminal is not to be used as the primary equipment grounding terminal. The internal grounding terminal shall be used as the primary equipment grounding means and the external grounding terminal is only for a supplemental (secondary) bonding connection where local authorities permit or require such a connection.
3. Date code format on nameplate is "YYWW" for year and week.
4. Zone hazardous locations flameproof gap and joint details. Activation plunger to guide through hole gap joints: 28.1 mm minimum length by 0.08 mm maximum annular gap. Adjustment shaft to shaft through hole gap joints: 27.0 mm minimum length by 0.08 mm maximum annular gap.
5. Plug is approved explosion-proof with the product as a full assembly, and does not carry individual markings.



B7-15140³

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 + H₁ T₆

IEC Ex

International Electrotechnical Commission

IEC Certification Scheme for Explosive Atmospheres
UL 09.0004X
Ex d IIC T₆
Ex tD A21 IP66 T85°C⁵
-40°C ≤ T_{amb} ≤ +75°C



THERMON . . . The Heat Tracing Specialists®

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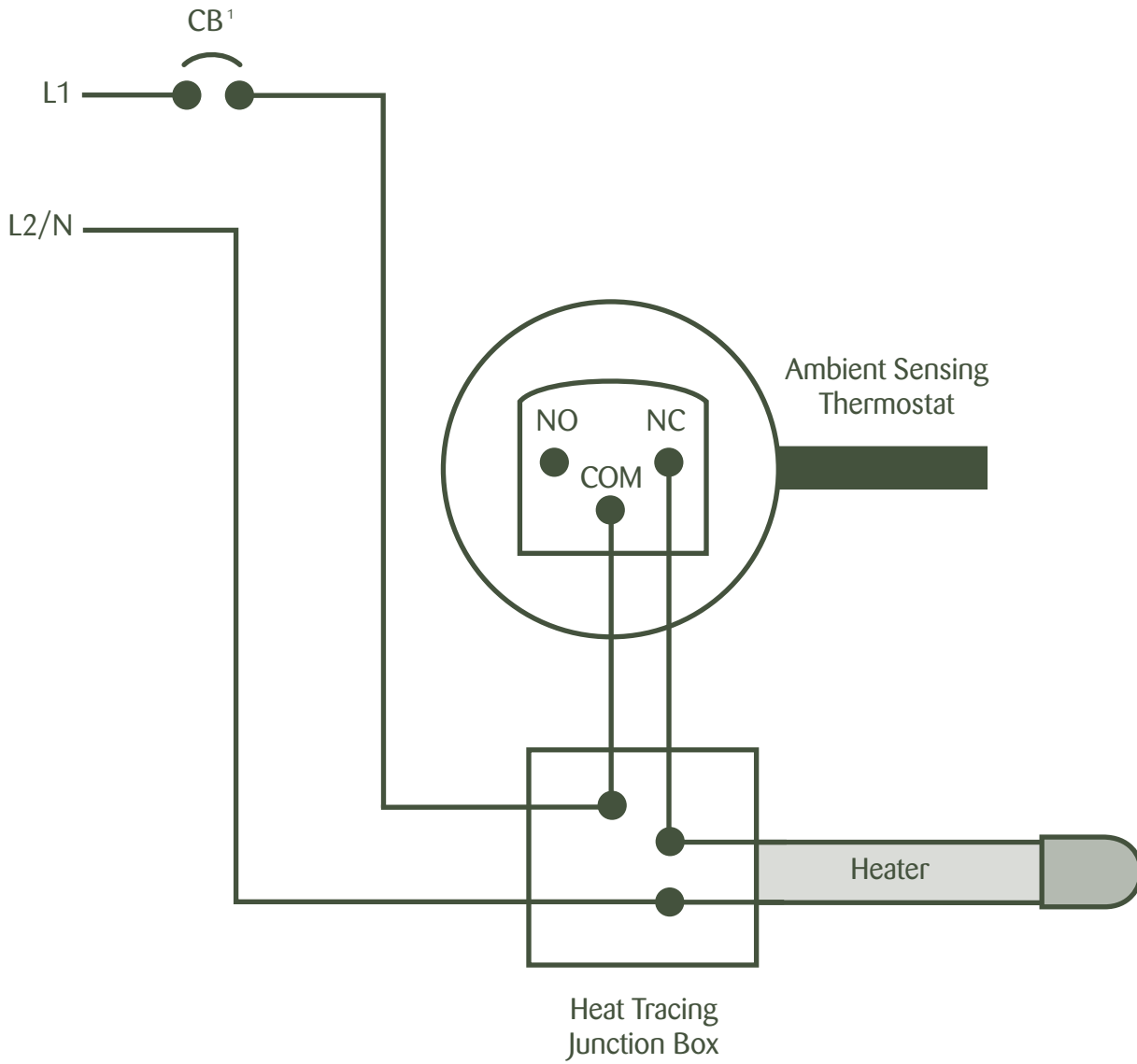
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Typical Wiring Diagram . . .



Notes . . .

1. Two pole circuit breakers required in hazardous areas only.

