

Installation Sheet

Enclosure for Tracer™ DIN-mounted Controllers

Ordering Number: X13651534010 (120 Vac, w/outlet); X13651535010 (230 Vac, no outlet)

These instructions will provide the following:

- Warnings, Cautions, and Notices
- Model numbers and specifications
- Minimum clearances and dimensions
- Mounting and wiring
- Installing the enclosure door

Warnings, Cautions, and Notices

Warnings, cautions, and notices are provided in appropriate places throughout this document:

⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE: Indicates a situation that could result in equipment or property-damage only accidents.

NOTICE

Avoid Equipment Damage!

Install and use the controllers as specified by the manufacturer. Failure to do so could result in equipment damage.

Model Numbers and Specifications

Model Numbers

Before installing the controller, verify the correct model for local power requirements. The model number is on the shipping label or on the product label inside the enclosure. Refer to the listing below and to [Figure 3, p. 6](#) for a visual representation:

- X13651534010, 120 Vac with outlet
- X13651535010, 230 Vac with no outlet

Operating Environment Specifications

Make sure that the operating environment conforms to the specifications listed in Table 1.

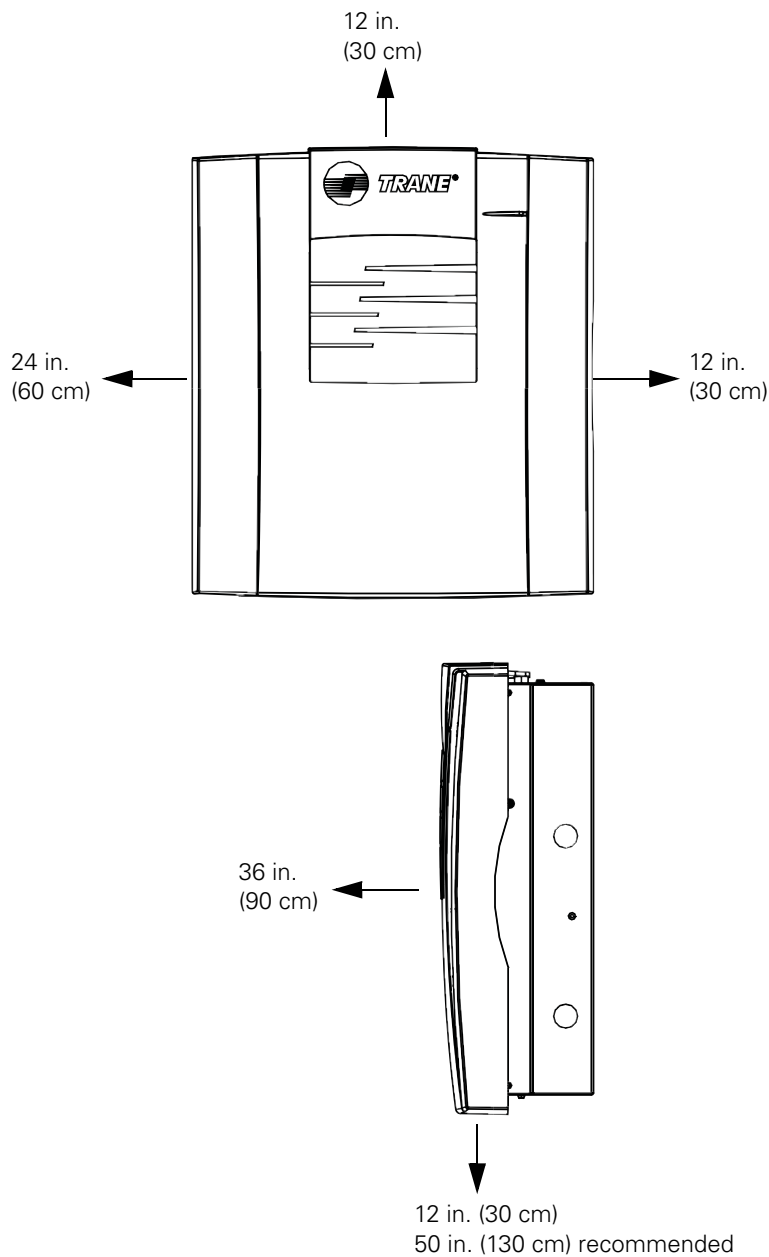
Table 1. Specifications

Temperature	From 32°F to 122°F (0°C to 50°C)
Humidity	5–95% non-condensing
Power requirements	120 Vac, 6A maximum, 1 phase, 50/60 Hz 230 Vac, 1 A maximum, 1 phase, 50/60 Hz
Power Output	76 VA at 24 Vac
Weight	Mounting surface must be able to support 60 lb. (28 kg)
Dimensions	16 ½ in. × 14 ¾ in. × 5 ½ in. (418 mm × 373 mm × 140 mm)
Altitude	6500 ft (2000 m) maximum
Installation	U.L. 840: Category 3
Pollution	U.L. 840: Degree 2

Minimum Clearances and Dimensions

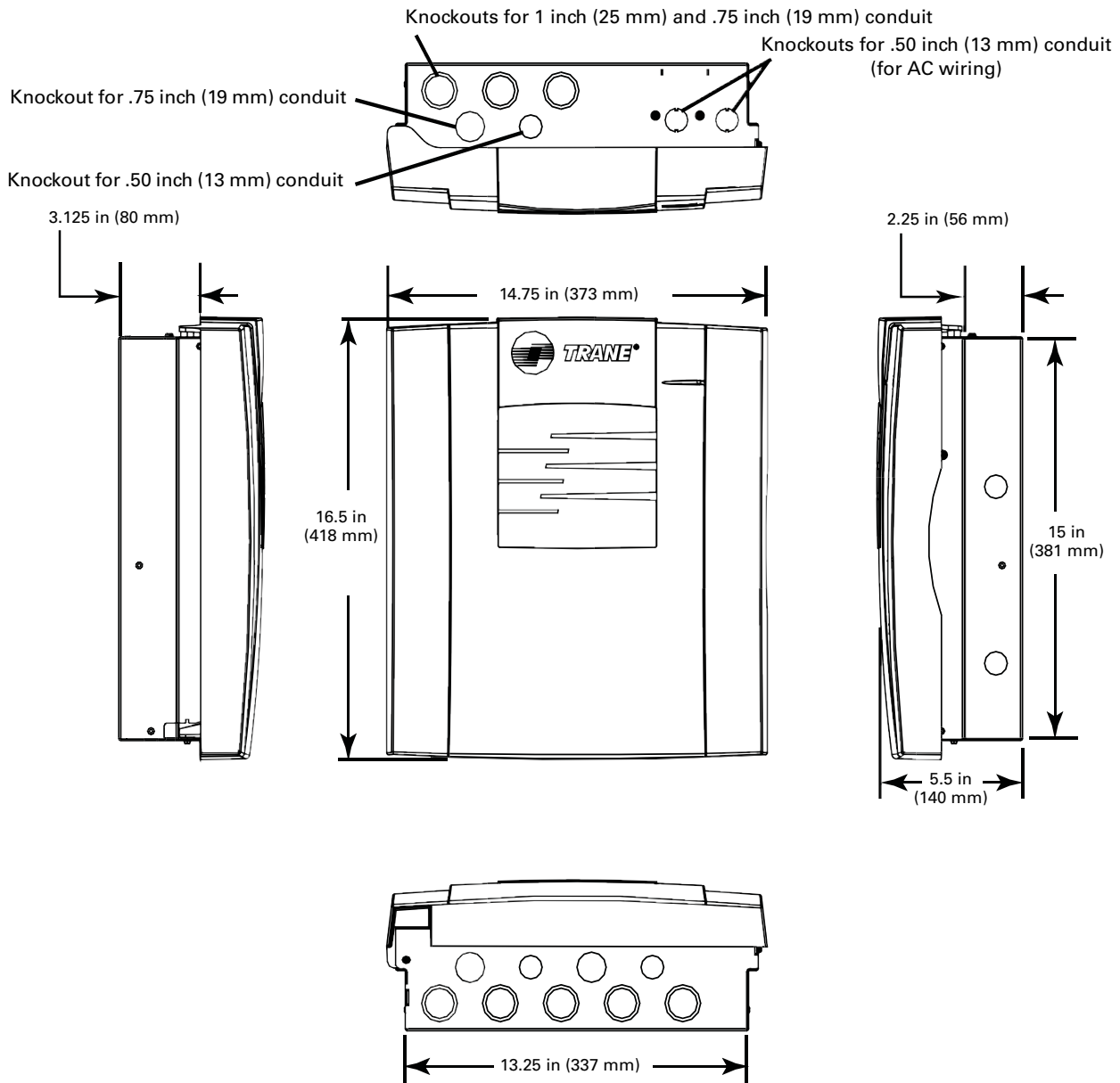
Ensure that the selected location provides enough space for the minimum clearances ([Figure 1](#)) and the enclosure dimensions ([Figure 2](#)).

Figure 1. Minimum clearances



Minimum Clearances and Dimensions

Figure 2. Enclosure dimensions



Mounting and Wiring

Location

Ensure that the location meets the operating environment requirements and clearance requirements described in the following sections. The controller must be installed indoors. Trane recommends locating the controller:

- Near the controlled equipment to reduce wiring
- Where service personnel have easy access
- Where public access is restricted to minimize the possibility of tampering or vandalism

Mounting Instructions

To mount the enclosure:

1. Use the enclosure as a template and mark the location of the four mounting holes on the mounting surface.
2. Set aside the enclosure and drill holes for the screws at the marked locations.

Note: *Drill holes for #10 (5 mm) screws or #10 wall anchors. Use wall anchors if the mounting surface is dry wall or masonry.*

3. Secure the enclosure to the mounting surface with the enclosed #10 (5 mm) screws or #10 wall anchors.

Wiring High-voltage AC Power

WARNING

Hazardous Voltage!

Disconnect all electrical power, including remote disconnects, before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.

CAUTION

Use Copper Conductors Only!

Unit terminals are designed to accept copper conductors only. Other conductors could cause equipment damage.

Important: *Ensure that the correct controller model is used for 120 Vac or 230 Vac. (Refer to [Table 1 on page 2](#))*

To ensure proper operation of the controller, install the power supply circuit in accordance with the following guidelines:

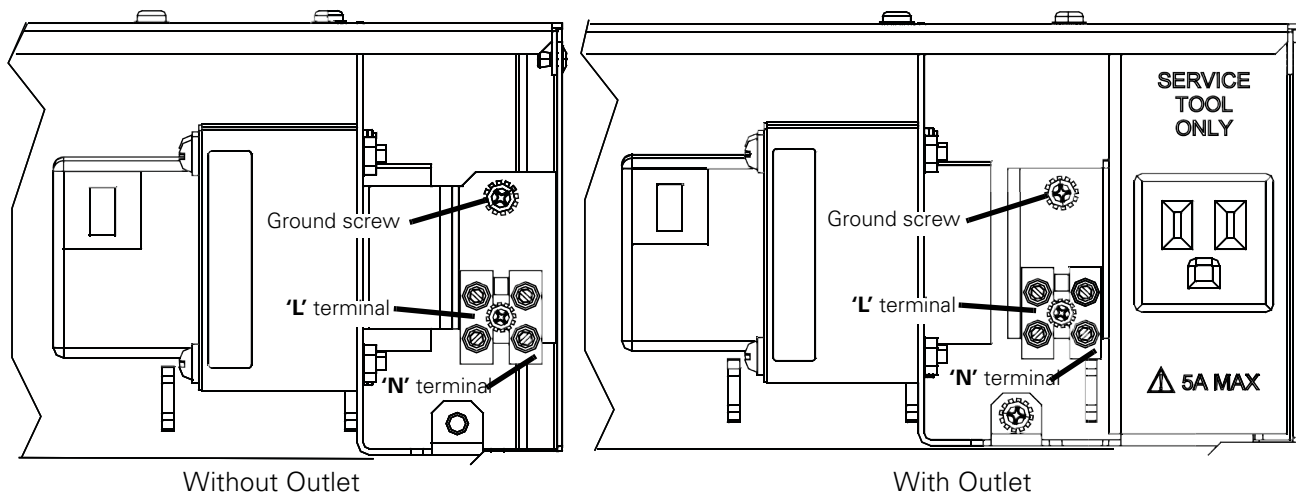
- The controller must receive power from a dedicated power circuit. Failure to comply could cause controller malfunctions.
- For CE-compliant installations, a disconnect switch for the dedicated power circuit must be near the controller, within easy reach of the operator, and marked as the disconnecting device for the controller.
- High-voltage power-wire conduits or wire bundles must not contain input/output wires. Failure to comply could cause the controller to malfunction due to electrical noise.
- High-voltage power wiring must comply with the National Electrical Code™ (NEC) and applicable local electrical codes.
- High-voltage wiring requires three-wire 120/230 Vac service (line, neutral, ground).

Note: *The transformer voltage utilization range is 98–132 Vac (120 Vac nominal) or 196–264 Vac (230 Vac nominal). The panel automatically detects whether the current is 50 or 60 cycle.*

To connect high-voltage power wires:

1. Lock open the supply-power disconnect switch.
2. At the top-right corner of the enclosure, remove the knockout for .50 inch (13 mm) conduit.
3. Open or remove the enclosure door if it is already installed.
4. Inside of the enclosure at the top-right corner, remove the high-voltage area cover plate.
5. Feed the high-voltage power wire into the enclosure.
6. Connect the line wire to the 'L' terminal as shown below.

Figure 3. AC wiring



7. Connect the neutral wire to the 'N' terminal as shown above.
8. Connect the green ground wire to the chassis ground screw as shown above.

Note: The ground wire should be continuous back to the circuit breaker panel.

Warning

Hazardous Voltage!

The cover plate must be in place when the controller is operating. Failure to replace the cover plate could result in death or serious injury.

9. Replace the cover plate.
10. On a field-supplied label, record the location of the circuit breaker panel and the electrical circuit. Attach the label to the cover plate.

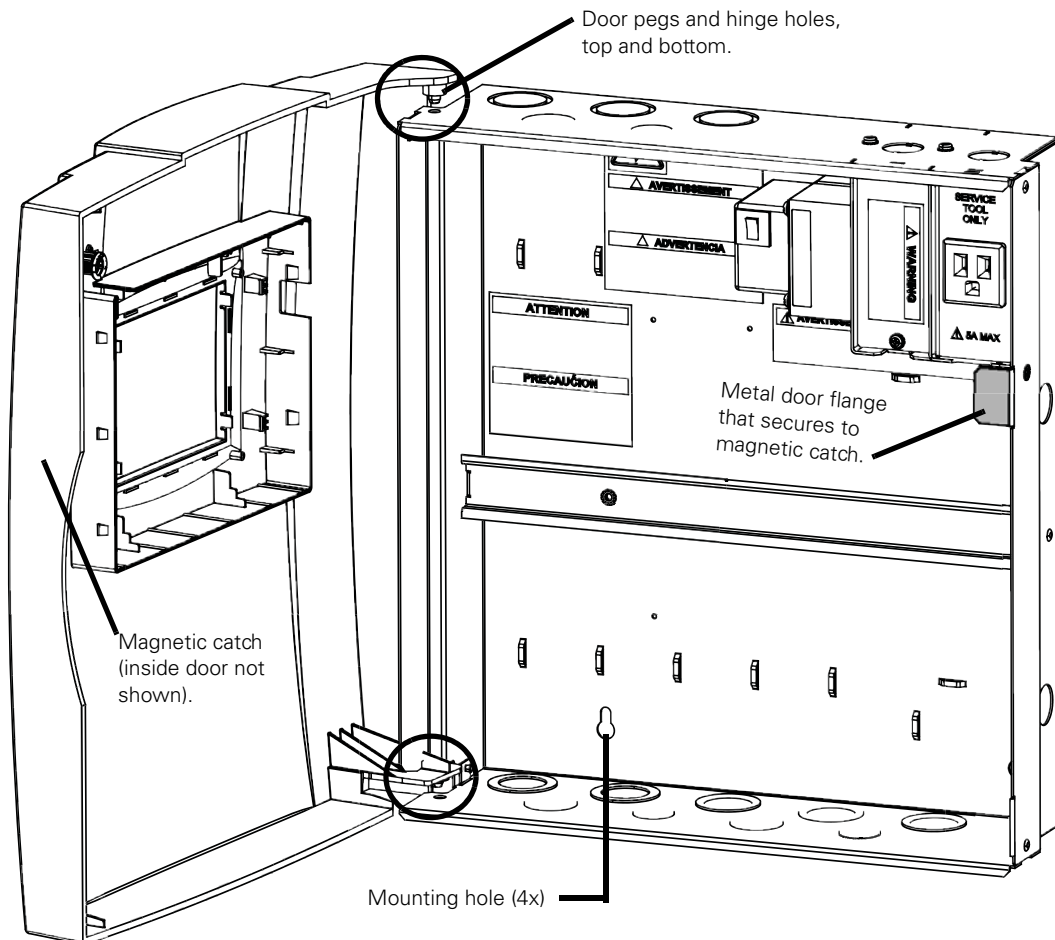
Installing the Enclosure Door

Note: Before installing the enclosure door, unpack the door and check for missing or damaged parts and any cracks in the plastic. Then, ensure that the magnetic catch is installed.

To install the enclosure door:

1. Hold the door at a 90° angle from the enclosure as shown in Figure 4.
2. Align the hinge pegs on the door with the hinge holes on the enclosure.
3. Gently lower the door until it rests securely in the hinge holes.
4. Verify that the door swings freely on the hinges and that the magnetic catch holds the door securely when it is closed.

Figure 4. Door alignment





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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.