



VIBRATION ANALYSIS HARDWARE



**CRHT202 Series Cable Reduction Box
16 Sensor Inputs
Product Manual**

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INTRODUCTION

CTC cable reduction box solutions offer a reliable and economic means of consolidating up to 16 vibration channels into one multi-conductor cable.

CRHT202 Series Cable Reduction Box Overview: *Eight to 16 accelerometer inputs (eight to 16 measurement channel outputs), stainless steel enclosure*

Input wiring from each sensor is connected to the box via terminal blocks. Each terminal block includes three inputs – positive, common and shield, the corresponding output terminal blocks are marked within the enclosure and also feature three connection inputs – positive, common and shield. Multi-conductor cabling with eight, 12 or 16 paired wires is connected to each output terminal block inside the enclosure. The cable exits through the bottom of the box as one single multi-conductor cable to provide input to a vibration switch box or online system for data collection.

Rated for NEMA 4X (IP66), the CRHT202 can withstand harsh environments including temperatures ranging from -40 °F to 212 °F (-40 °C to 100 °C). The box is also resistant to hose-directed fluid and corrosion. A twist lock is installed on the door allowing the box to be sealed from the elements when not in use.



PRODUCT DIMENSIONS

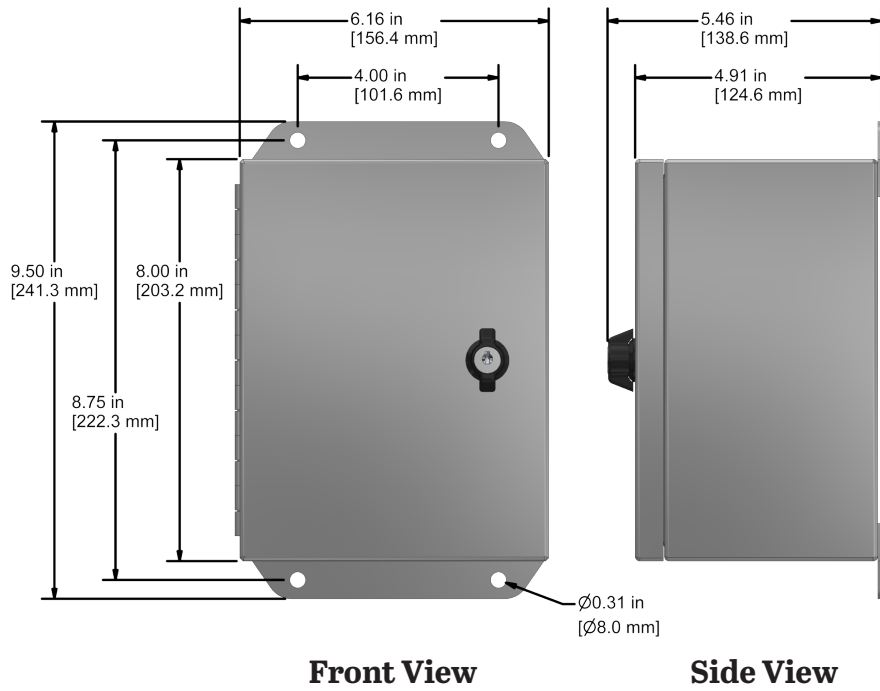


Figure 1. Dimensions

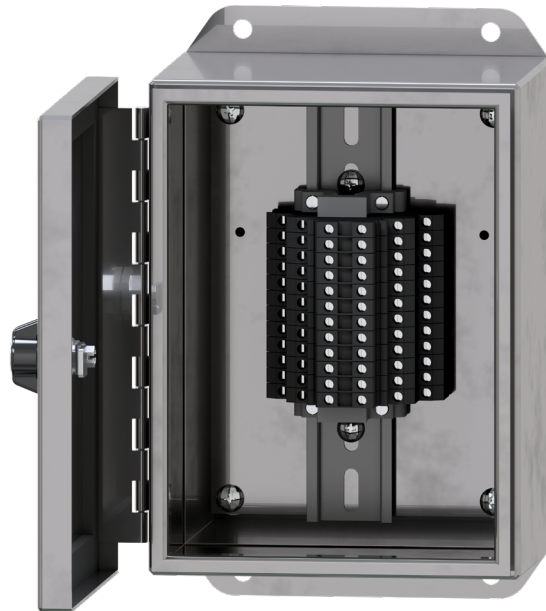


Figure 2. Diagram

MOUNTING INSTRUCTIONS

Note: If you have purchased a cable reduction box without cable entries provided, you should add your own entry prior to mounting the cable reduction box. CTC does not recommend drilling holes in the top of the cable reduction boxes due to access and moisture concerns.

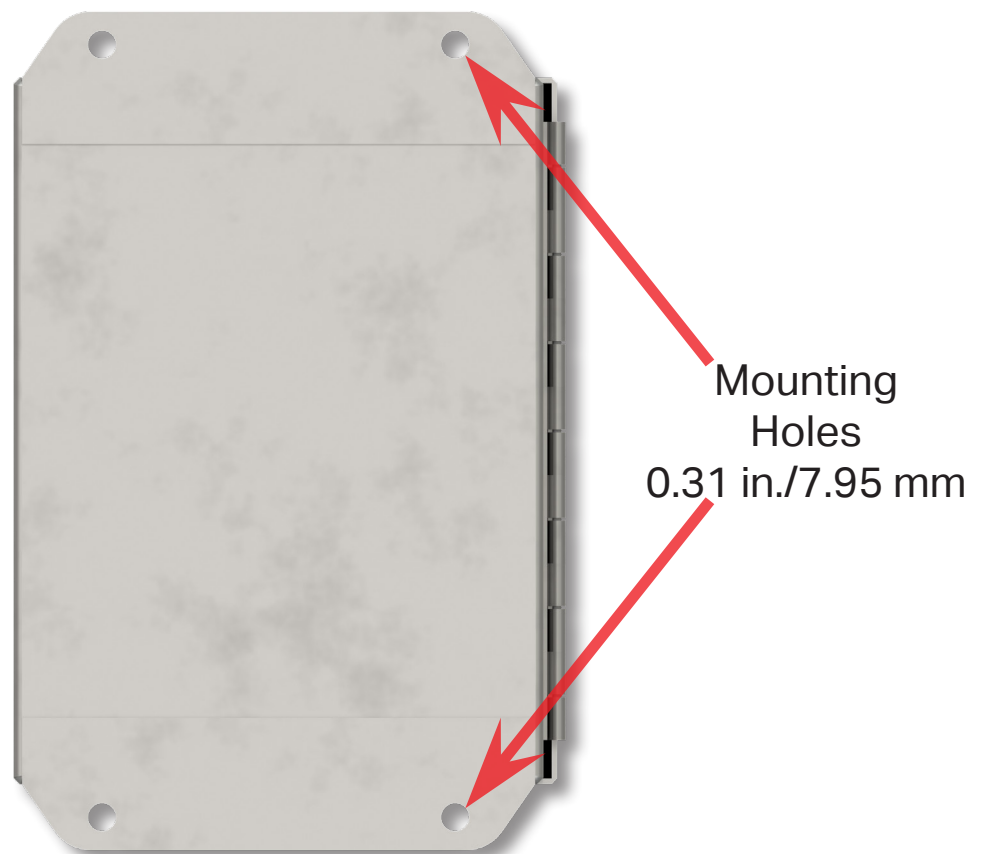


Figure 3. Cable Reduction Box Rear View

CONDUIT ENTRY

If you are running conduit to your enclosure, ensure the conduit cable entry enters from the bottom of the enclosure when mounted.

Note: To ensure moisture will not flow into the enclosure, a hole should be drilled at the lowest point in the conduit to provide drainage for any moisture.

Correct



Incorrect



Figure 4. Conduit Entry for Switch Box

GROUNDING

In order to avoid potential ground loop problems, the CRHT202 series is not grounded. All cabling, including the shield drain, should be passed through to the final termination point.

SENSOR INSTALLATION

Installation of Sensors/Signal Input Cable

1. Feed blunt-cut end through the cable entry at the bottom of the enclosure.

Note: It is recommended that cables are marked on both ends.

For cord grip cable entry, take off the cord grip cover with bushing and run cable into enclosure, hand tighten cord grip cover to base to prevent damage to cord grip.



Figure 7. Cord Grip Entry

1. Strip outer jacket of cable back 1¼ in. and remove all of the shielding.
2. Separate the internal wires from the shield and twist the shield.
3. Strip red and black insulation back ¼ in.



Figure 8. Stripped Wire

4. While viewing the rear of the panel, locate the appropriate channel. Using a mini flathead screwdriver, loosen the screws for the channel and insert the wires into the termination block. Orientation is as follows:
 - a. Red insulated conductor wire is connected to (+).
 - b. Black insulated conductor wire is connected to (-).
 - c. Shield drain wire is connected to ground (GND).
 - d. Tighten the screw on each wire to hold it in place.

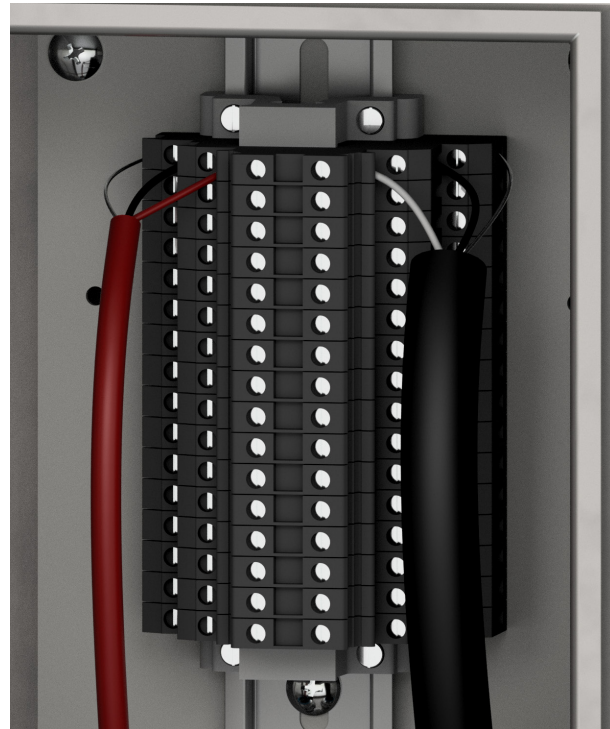
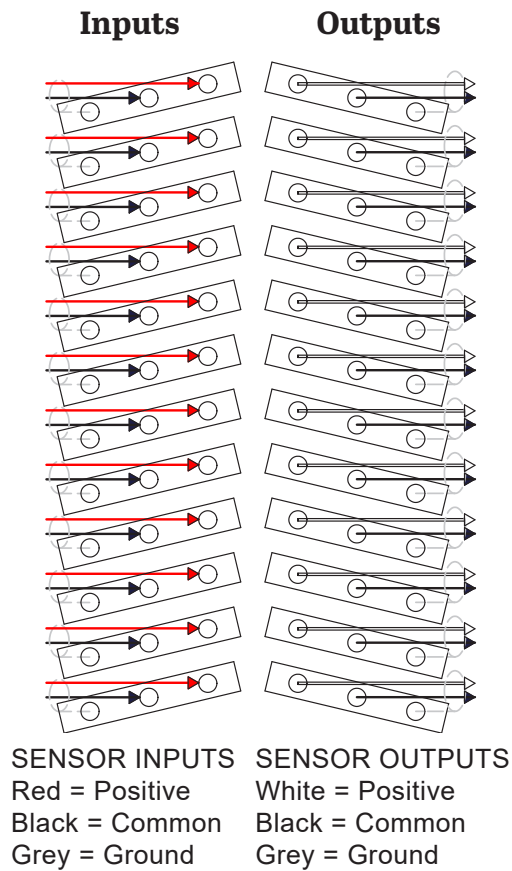


Figure 9. Connecting Cables to Switch Box

5. Tighten the screws on the termination block and double check to ensure that the cable is going to the correct channel.

WARRANTY AND REFUND

Please visit www.ctconline.com to view a complete recapitulation of our warranty and refund policies.

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