

MODCALL - 12 STOP

Part No. 90-10083571

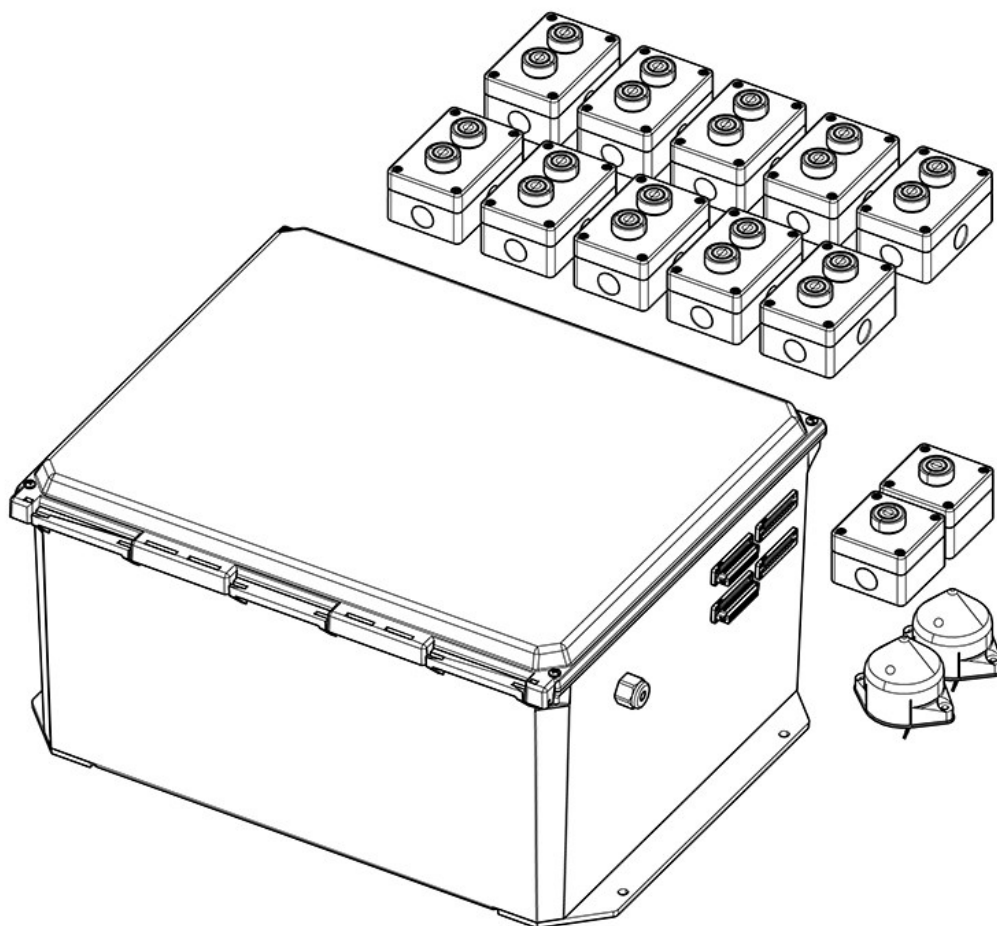


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NOTICE

GENERAL WARNINGS

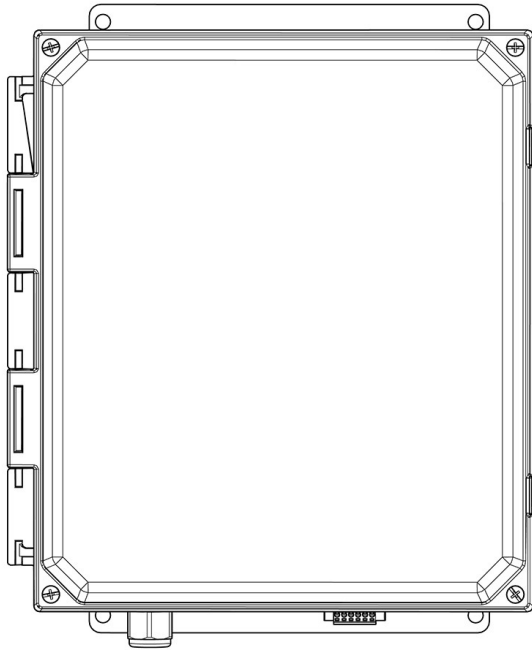
The equipment covered in this manual should only be installed, used, and serviced by qualified personnel trained in proper work and safety procedures. This manual is intended to assist such trained individuals in the installation and use of this equipment and is not intended as a substitute for proper training and experience.

This document or any other information regarding this equipment is not intended to cover all of the possible situations which may be encountered while using the equipment described herein. Should specific situations arise which are not covered by the information provided, or should the user desire further details, the specifics should be directed to Wurtec, Inc.

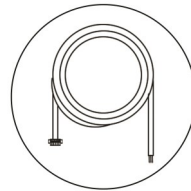
Note: In the effort of continuous product improvement, Wurtec, Inc. reserves the right to modify the design and specifications of this product at any time without notice.

PACKING LIST

(1) Hall Call Relay Box

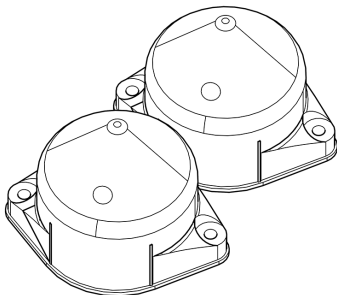
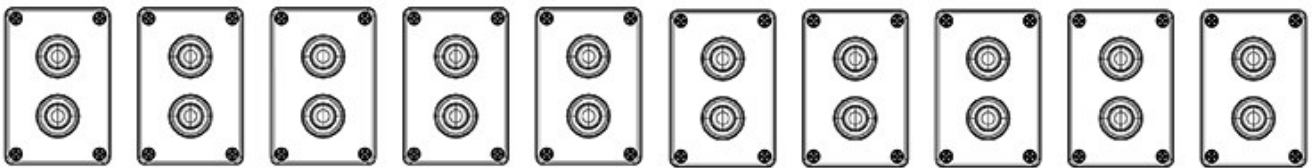


(1) Instructions

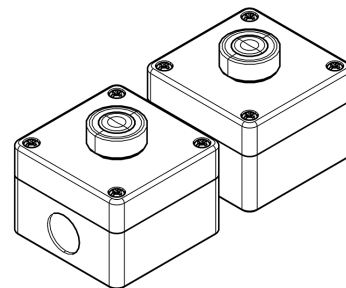


(2) 10' Cable with
Terminal Block End

(10) Intermediate Landing Hall Call Buttons



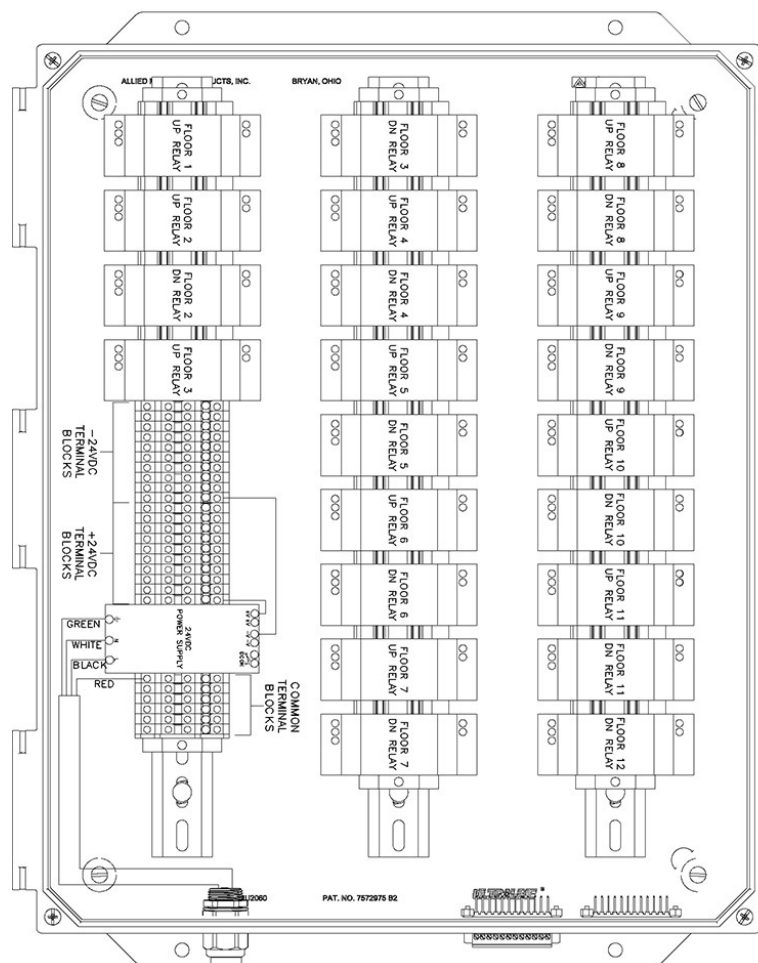
(2) Relay Antennas



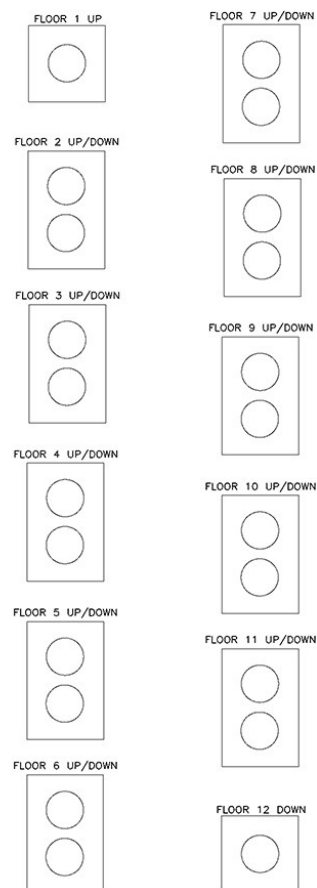
(2) Terminal Landing Hall Call Buttons

WIRING DIAGRAM

ENCLOSURE TOP VIEW



FLOOR LANDING PUSH BUTTONS



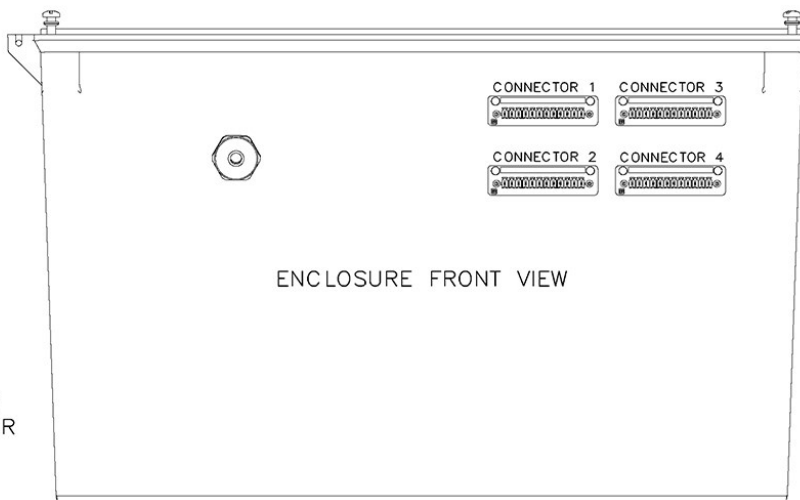
EACH PUSH BUTTON
CORRESPONDS WITH A RELAY
THESE BUTTONS ARE WIRELESS
& BATTERY-LESS

POWER CABLE
WIRING

GROUND GREEN
NEUTRAL WHITE
LINE BLACK
CONTROLLER_COMMON RED

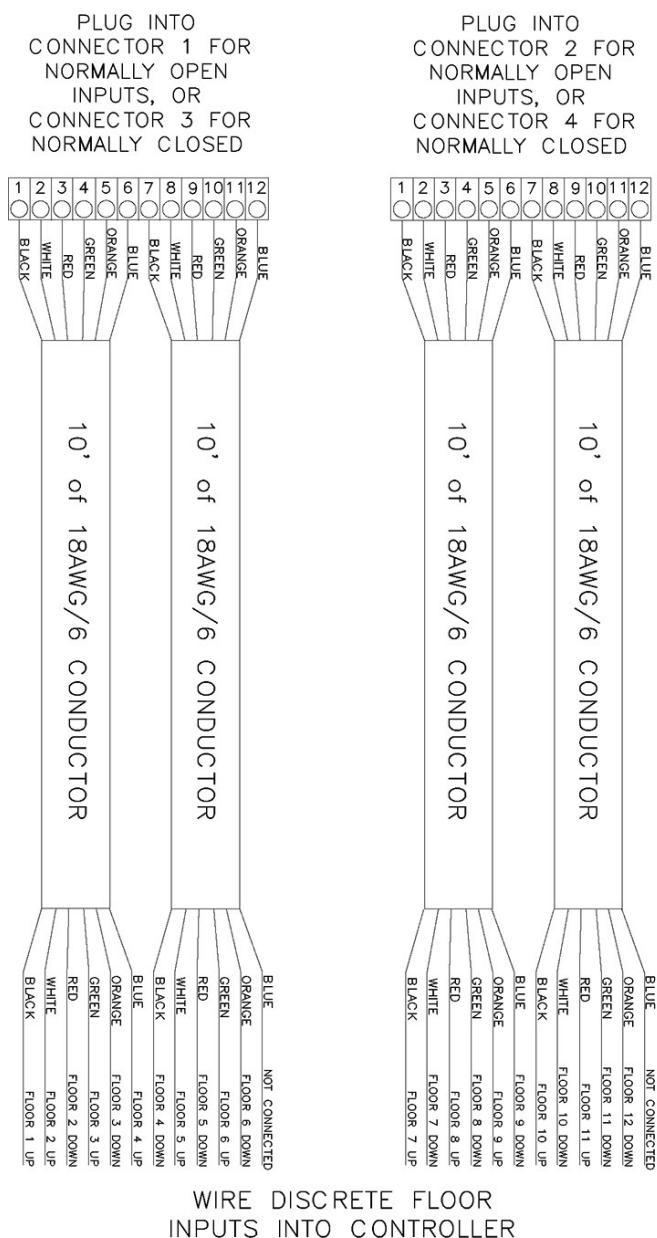
WIRE INTO
CONTROLLER

ENCLOSURE FRONT VIEW

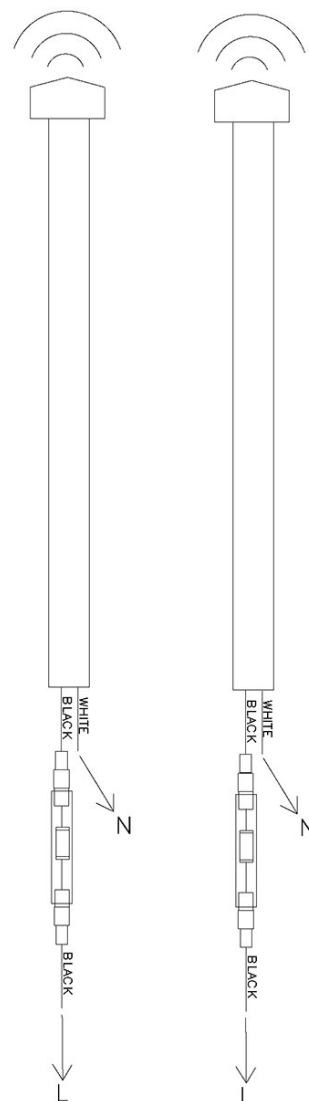


WIRING DIAGRAM

FLOOR INPUT CABLE WIRING



RELAY ANTENNA WIRING



EQUIPMENT DESCRIPTION & INTENDED USE

The ModCall - 12-Stop Kit is a complete solution for efficient elevator hall call functionality across up to 12 stops. Designed with reliability and convenience in mind, this kit ensures seamless communication for buildings with multiple floors.

What's Included:

- **1 Hall Call Relay Box:** Centralized control for all hall call signals.
- **2 Terminal Landing Hall Call Buttons:** Designed for the top and bottom floors, such as the lobby or basement, providing straightforward call functionality.
- **10 Intermediate Landing Hall Call Buttons:** Each equipped with up and down buttons for precise floor selection, ideal for placement on floors between the top and bottom terminals.
- **2 Relay Antennas:** Ensures optimal signal strength and communication. For best results, antennas should be placed approximately every 5–6 floors.

With this kit, you can modernize and streamline your elevator's hall call system, offering a reliable and user-friendly experience for occupants across all floors.

INSTALLATION / ASSEMBLY TOOLS REQUIRED

The following are the minimum required tools for installation:

- Drill and Bits
- Drywall, Masonry, or Wood Screws
- Phillips Screwdriver
- Electrical Wiring Tools - Wire Strippers, Pliers, Multimeter, etc

PERSONAL PROTECTION EQUIPMENT (PPE) REQUIRED

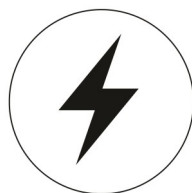
The following PPE is recommended for installation:

- Safety glasses
- Hard hat
- Abrasion-resistant gloves
- Steel toed boots
- Safety Vest
- Harness and attached lifeline

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INSTALLATION INSTRUCTIONS

Wiring



Diagram

Step 1: Reviewing the Wiring Diagram

IMPORTANT: Review the wiring diagram thoroughly before beginning.

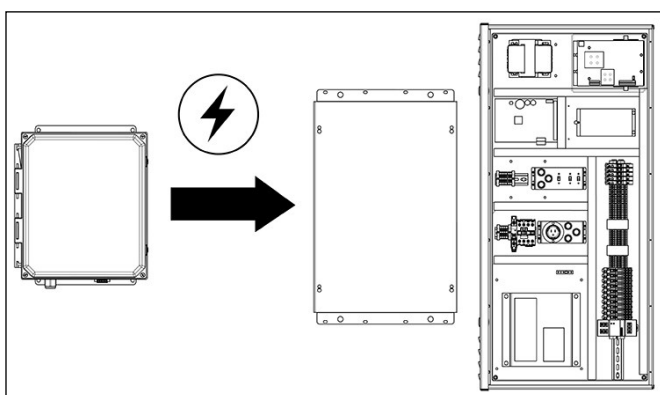
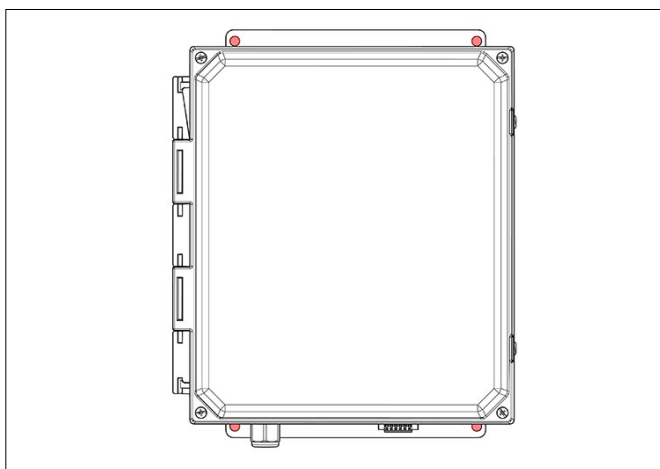
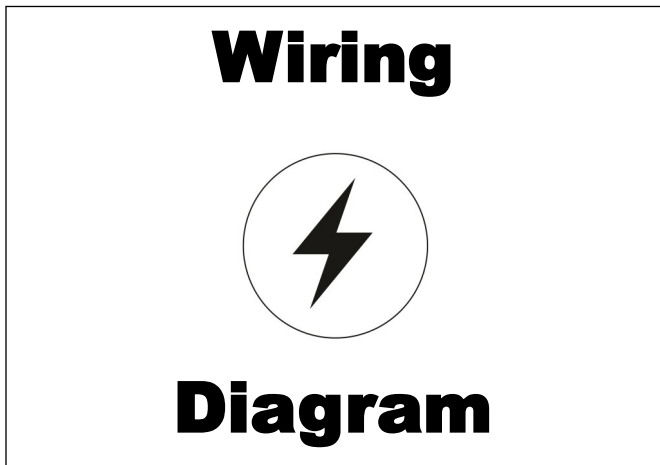
- Connect the Relay Box to the building's power supply and either the controller or the cartop box:
 - Controller Connection: Simulates a hall call activation.
 - Cartop Box Connection: Simulates a car call activation.

Step 2: Mounting the Relay Box

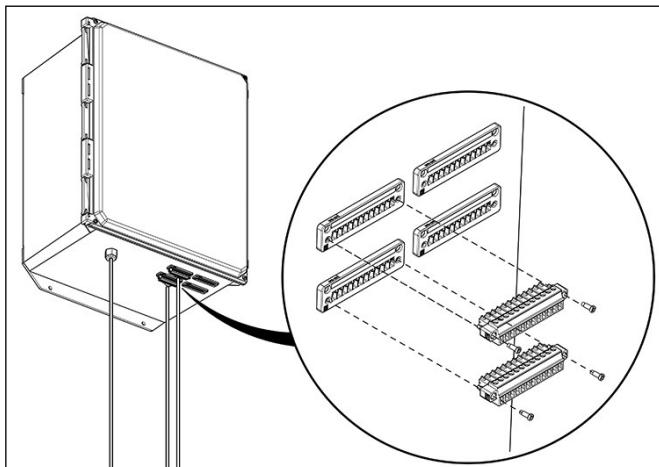
- Determine the placement for the Hall Call Relay Box in the machine room or on the cartop box.
- Secure the Relay Box to the wall at the designated points using drywall or wood screws. *(This step can be completed before or after wiring the Relay Box.)*

Step 3: Wiring the Hall Call Buttons

- Take the 10-ft cables with the green terminal block and connect them to either the cartop box or the controller, depending on your desired setup.
*NOTE: Each connection method simulates a different type of car activation:
 - **Controller Connection:** Simulates a hall call activation.
 - **Cartop Box Connection:** Simulates a car call activation.

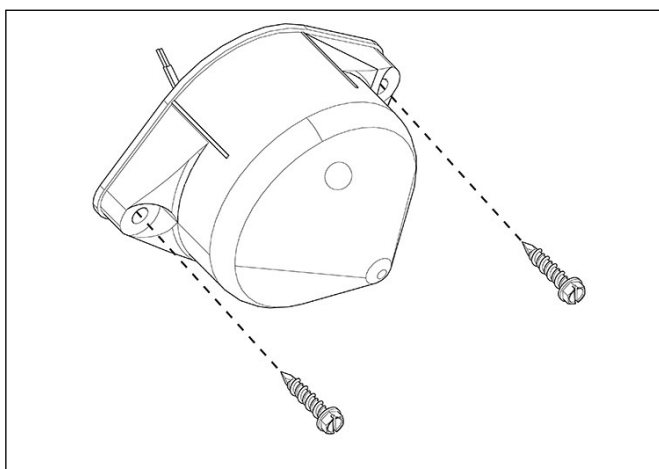


INSTALLATION INSTRUCTIONS



Step 4: Connecting to Relay Box

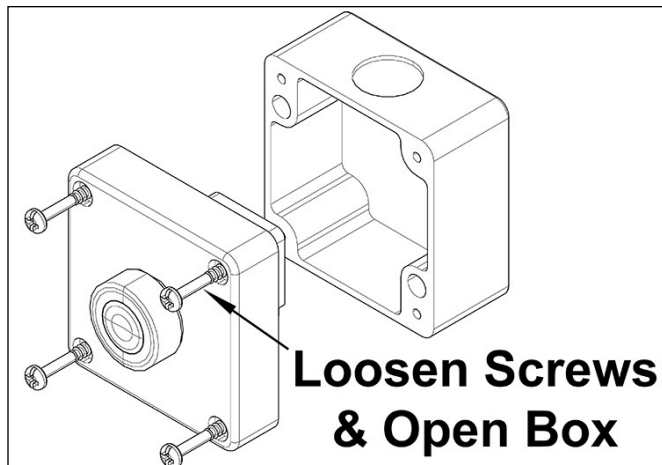
- Connect the other end of the 10 ft cables to the 12-position terminal blocks on the Relay Box. From left to right, the cable colors are: Black, White, Red, Green, Orange, Blue , Black, White, Red, Green, Orange, Blue.
 - For Normally Open Contacts, connect the terminals closest to the power cable.
 - For Normally Closed Contacts connect the terminals furthest from the power cable.
- Secure the connection by tightening the screws on the terminal blocks.



Step 5: Mounting & Wiring the Relay Antenna

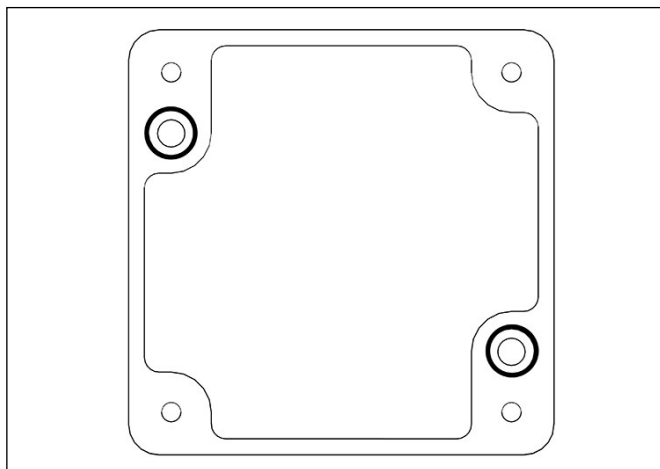
- Check the Wiring Diagram, then wire both Relay Antennas into the 120VAC.
- Mount the Antennas in the hoistway using concrete screws or anchors.
- *NOTE: The relay antennas acts as a repeater for the wireless signals between the Hall Call Relay Box and Hall Call Buttons. For best results, a relay antenna should be placed every 5-6 floors. Building materials can reduce range:
 - Glass Window - 10-20%
 - Plaster Wall - 30-45%
 - Brick Wall - 60%
 - Concrete Wall - 70-80%
 - Metal Structure - 50-100%

INSTALLATION INSTRUCTIONS



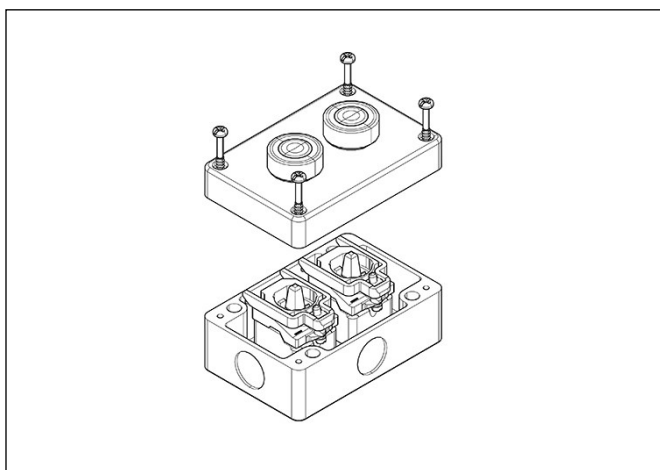
Step 6: Mounting the Terminal Hall Call Buttons

- Determine placement for the Terminal Hall Call Buttons. One should be placed on the highest floor and one on the lowest floor.
- Loosen the screws on the button box and remove the lid.



Step 7: Securing the Button Box to the Wall

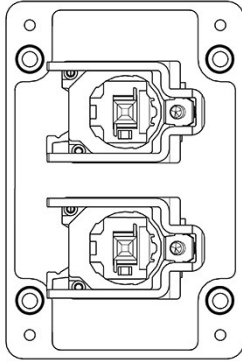
- Mount the Button Box to the wall using two drywall or wood screws.
- Put the lid back on the box and tighten the lid screws.
- Repeat these steps to mount both Terminal Hall Call Buttons.



Step 6: Placing the Intermediate Hall Calls

- The Intermediate Landing Hall Calls should be placed at each floor in between the highest and lowest floors.
- Loosen the screws on the Hall Call Relay Button and remove the lid.

INSTALLATION INSTRUCTIONS



Step 7: Securing the Buttons to the Wall

- Mount the Button Box to the wall using four drywall or wood screws.
- Put the lid back on the box and tighten the lid screws.
- Repeat these steps to mount all of the remaining Intermediate Hall Call Buttons.
- The ModCall - 12-Stop is ready to use.