

# PRISM

HARDSCAPES

## POWER COLUMN



Installation, Operation, & Maintenance Manual

## Introduction

The intent of this product is to provide power to an electrical applicant that requires a method to shut off power to an appliance in case of an emergency while limiting the product usage by means of a mechanical timer switch.

## Required preparations

Prepare a location for proper mounting of the power column.

This product is intended to be placed on a concrete pad capable of withstanding side loading of 400 lbs.

The pad must be level within 2 degrees of the vertical plane on all sides.

½" Concrete anchor bolts are to be used to hold the product in place at its base.

Electrical conduit should be properly sized and placed within the center of the mounting hole.

A 3-wire set should come from the power circuit breaker and there should be a 3-wire set that will go to the product transformer.

A minimum wire size of 14 AWG insulated wire or should be used from the power source to the product.

Please see the wiring diagram on page 3 for accepted wiring connections.

**Warning! Please make sure all power is off before doing any work.**

## Installation

1. Place the Power Column in the desired mounting location and mark the mounting hole locations.  
Note: the electrical conduit & wires should be at the center of the mounting hole.
2. Install 4 anchor bolts and check bolts to make sure they are secure.
3. Remove the Timer and Emergency Stop switches from the Power Column. You will need to open the covers of the individual enclosures for each switch to access the mounting screws.
4. The Power Column will now have 2 junction boxes. Remove the mounting screws for each junction box from the Power Column and pull out each junction box. You will now have 2 rectangular openings.
5. Lay the Power Column on its side and fish flexible wire conduit up and through each of the two rectangular holes. Note: the flexible conduit should hold a 3-wire set of 14 AWG wire (typically black, white, and green).
6. You will need a smaller conduit set to go from one hole to the other in order to electrically connect both switches, as the connection is a series circuit. We will call this conduit line the Jumper line.
7. Install strain relief fittings on each junction box and pull the wires through and into the inside of each junction box including the wires from the smaller flexible conduit.
8. Place each junction box into its proper location and secure with the mounting screws.

9. Now that both junction boxes are secured, pull all the wires out approximately 4 to 6 inches and strip each wire.
10. Starting with the Emergency Stop switch, feed the hot wire from the power source/circuit breaker line through the access cover and connect it to one of the switch terminals and secure the screw.
11. Take the hot wire from the Jumper line and connect it to the other terminal and secure that screw.
12. Take both neutral wires (one from the power source/breaker line and the other from the jumper line) and connect them with a wire nut.
13. Cut a length of green 14 AWG wire and connect it to the junction box ground post.
14. Take both ground wires (one from the power source/breaker line and the other from the jumper line) and connect with a wire nut to the grounded green wire from the junction box.
15. Tuck all wires into the junction box and push the Emergency Stop switch into position (along with its cover).
16. Align the mounting screws to the junction box and secure.
17. Continue with the upper opening with the timer switch. Feed the hot wire from the power source/circuit breaker line through the access cover and connect it to one of the switch terminals and secure the screw.
18. Take the hot wire from the Jumper line and connect it to the other terminal and secure that screw.
19. Take both neutral wires (one from the power source/breaker line and the other from the jumper line) and connect them with a wire nut.
20. Cut a length of green 14 AWG wire and connect it to the junction box ground post.
21. Take both ground wires (one from the power source/breaker line and the other from the jumper line) and connect with a wire nut to the grounded green wire from the junction box.
22. Tuck all wires into the junction box and push the Emergency Stop switch into position (along with its cover).
23. Align the mounting screws to the junction box and secure.
24. Now that both switches are in place, you may go to the bottom of the post and connect the power wires from the Power Column to the breaker power wires (from the stub out conduit).
25. Before the final connections, turn on both switches and check the hot wire lines for continuity.
26. Repeat for the neutral and ground lines.
27. Take the other set of wires from the Power Column and connect to the stub out conduit supplying power to the appliance transformer. Note: These lower connections may need to be enclosed within its own junction box based on local code requirements.
28. Pull Power Column up vertically and align over the anchor bolts.
29. Secure bolts.

## Operation

To activate the appliance, both Emergency Stop and Timer switches must be turned on.

For the **Timer switch**, simply turn the knob to the desired time and it will run until that time has expired. It will then shut off the appliance.

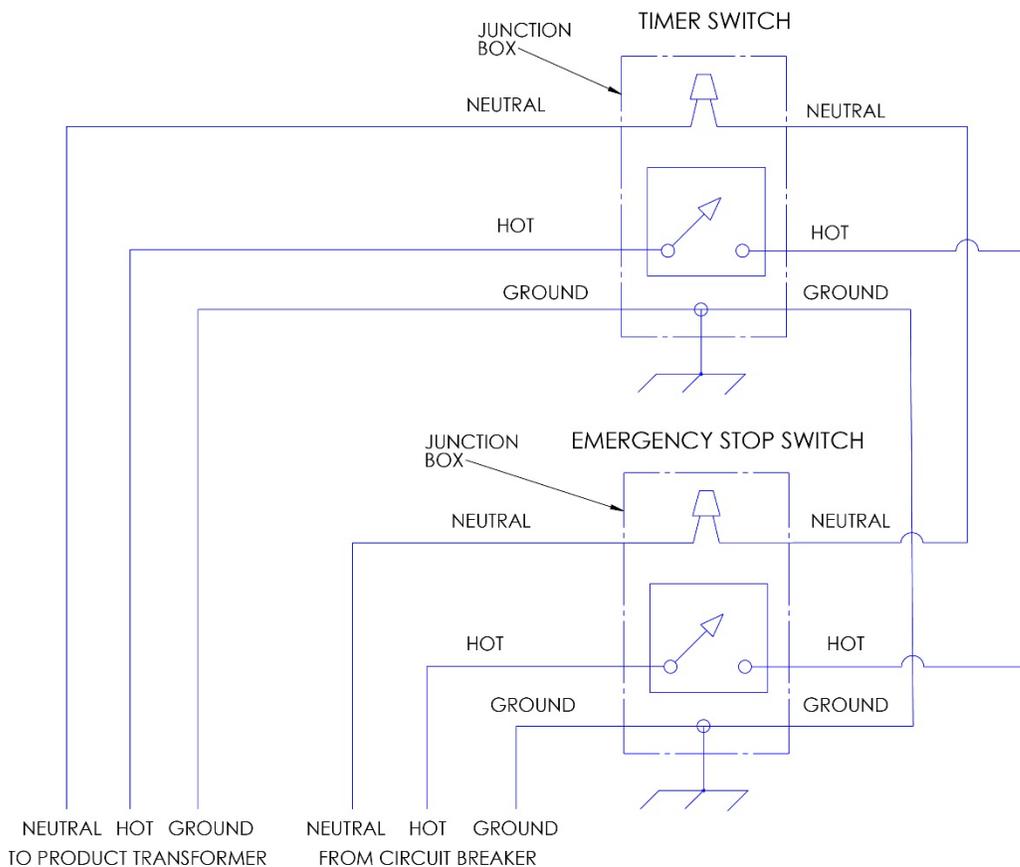
For the **Emergency Shutoff switch**, simply push the red button to shut off or deactivate the appliance.

Reset (On) the switch by turning the red button to the right.

Please remember that both switches must be on in order for the appliance power to be activated.

Note:

Please refer to the wiring diagram below for detailed wiring information.



### NOTES

1. USE FLEXIBLE CONDUIT WITHIN COLUMN
2. MINIMUM 14 AWG, INSULATED WIRE
3. USE PROPER STRAIN RELIEF AT JUNCTION BOX KNOCK OUTS
4. JUNCTION BOXES MUST BE GROUNDED