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## Introduction

The CSW-RS Remote Switch is designed for use with Magnum Energy's CSW1012 inverter. This remote switch is simple to install and use; allowing easy inverter ON/OFF control and a quick indication of the inverter's ON/OFF status from a more convenient location.

## Installation



### WARNINGS:

- All wiring should be performed by a certified technician or electrician in compliance with all applicable electrical safety wiring regulations and installation codes.
- Before installing or using this remote, read this entire manual and adhere to all cautionary markings located on the inverter and on the batteries.

## Pre-Installation

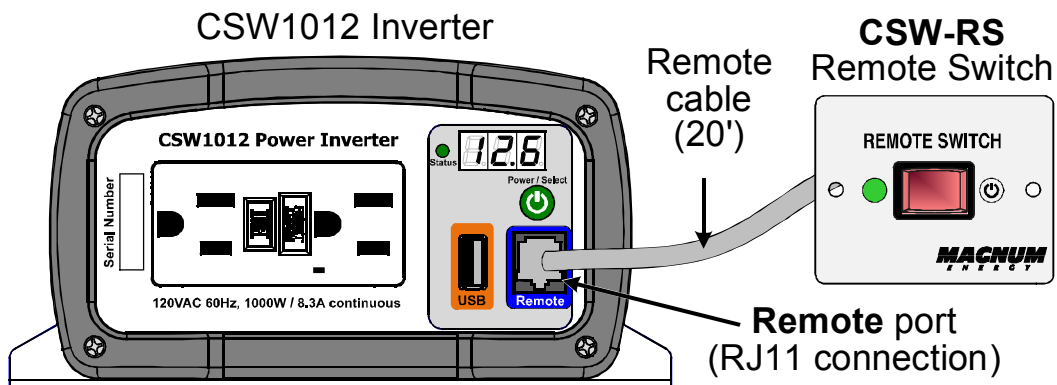
1. Determine a suitable location to mount the remote switch. It must be located in a clean, dry, and protected place.
2. Plan the cable route from the remote to the inverter before you do any cutting or drilling to ensure there are no obstructions that can't be overcome.
3. Allow ample room to access the remote switch and view the LED indicator.

## Connecting the Remote Cable

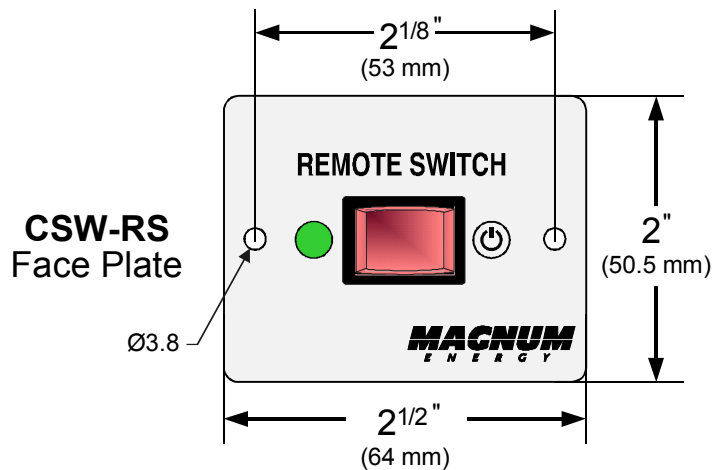
The remote cable is hardwired to the back of the remote switch and is a 20-foot, 4-conductor cable (wired like a normal telephone type cable). This cable connects to the **Remote** port located on the front of the inverter, as shown in Figure 1.



**Info:** If the 20-foot remote cable length is not enough, it may be extended up to 50 feet using a standard 4-conductor male to female telephone extension cable.



**Figure 1, Remote Cable Connection**



**Figure 2, Remote Switch Face Plate Dimensions**

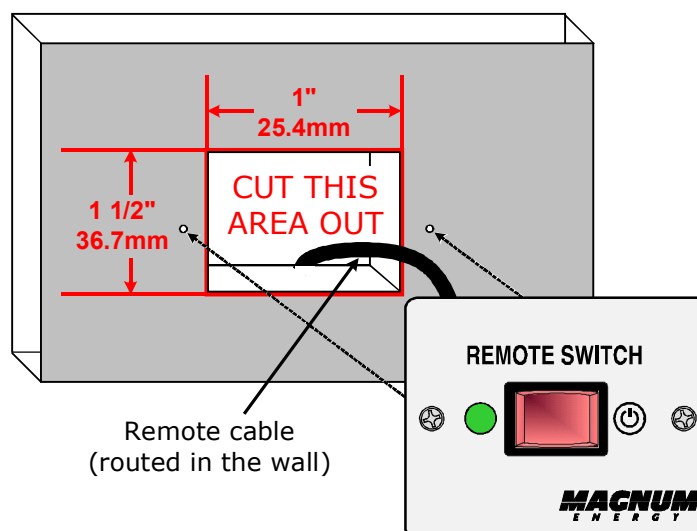
### Mounting



**CAUTION:** Always check for hidden electrical wires, pipes, and cables BEFORE drilling, cutting, or screwing into walls or cabinets.

To mount the remote on a wall, the remote's display panel will need to be placed into an opening. This opening must have at least a 1" depth to allow room for the remote's rear switch and wires/cable.

1. Cut an opening in a wall – see Figure 3 to determine the correct opening dimensions. DO NOT cut the opening too big. Ensure there are no openings around the display, and that there is enough material for the screws to secure the display. Remove any wall insulation (if applicable) that may contact the back of the remote.
2. Route the remote cable thru the opening in the wall to the inverter location.
3. Position the remote into the opening in the wall and secure with two screws.
4. After ensuring the inverter is OFF, plug the remote cable into the Remote port on the front of the inverter as shown in Figure 1.



**Figure 3, Remote Switch Mounting**

### Functional Test

After installing and connecting the remote, use the following steps to ensure the remote functions correctly.

1. Turn the inverter on using the inverter's Power/Select button.
2. Verify the Status indicator light on the inverter and the green indicator light on the remote both come on.
3. Press the switch on the remote to turn the inverter off, and then verify the green indicator light on the remote and the status indicator on the inverter both go off.
4. Press the switch on the remote again to turn the inverter on, and verify the green indicator light on the remote comes on.

If the remote passes all the above steps, it's ready for use.

If the remote fails any of the steps, check all the connections at both ends of the remote cable and ensure the inverter is operational. If the status indicator on the inverter comes on red (error), refer to the Troubleshooting section in the *CSW1012 Owner's Manual* to help clear the error condition.

### Operation

The CSW-RS uses a momentary rocker switch that duplicates the Power/Select button on the inverter, and functions by momentary pressing for one second and releasing. This remote switch also provides a green LED indicator to show whether the CSW1012 inverter is ON or OFF.

To turn the inverter ON: Press and hold the rocker switch on the remote for approximately one second. When the green light on the remote switch comes on, the inverter is ON.

To turn the inverter OFF: Turn the inverter off by pressing and holding the rocker switch on the remote for approximately one second. When the green light on the remote switch turns off, the inverter is OFF.



**WARNING:** The remote switch turns the inverter's control circuit on and off. This switch is not a power disconnect switch and will not remove the DC power from the inverter. Disconnect all power to the inverter before working on the inverter.

## CSW-RS Owner's Guide

### Limited Warranty

Magnum Energy, Inc., warrants the CSW-RS Remote Switch to be free from defects in material and workmanship that result in product failure during normal usage, according to the following terms and conditions:

1. The limited warranty for this product extends for a maximum of 12 months from the product's original date of purchase.
2. The limited warranty extends to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser.
3. During the limited warranty period, Magnum will repair or replace at our option any defective parts, or any parts that will not properly operate for their intended use, with factory new or remanufactured replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. The limited warranty does not cover defects in appearance, or cosmetic, decorative, structural or non-operative parts. Magnum's limit of liability under this warranty shall be the actual cash value of the product at the time the original purchaser returns the product for repair, determined by the price paid by the original purchaser. Magnum shall not be liable for any other losses or damages.
4. Upon request from Magnum, the original purchaser must prove the product's original date of purchase by a dated bill of sale, itemized receipt.
5. The original purchaser shall return the product prepaid to Magnum. After the completion of service under this limited warranty, Magnum will return the product prepaid to the original purchaser via a Magnum selected non-expedited surface freight within the contiguous United States and Canada; this excludes Alaska and Hawaii.
6. If Magnum repairs or replaces a product, its warranty continues for the remaining portion of the original warranty period or 90 days from the date of the return shipment to the original purchaser, whichever is greater. All replaced products and parts removed from repaired products become the property of Magnum.
7. This limited warranty is voided if:
  - the product has been modified without authorization.
  - the serial number has been altered or removed.
  - the product has been damaged from abuse, neglect, accident, high voltage or corrosion.
  - the product was not installed/operated according to instructions.

### How to Receive Warranty Service

If your product requires warranty service, contact Magnum at:

- Telephone: 425-353-8833, or
- Email: [warranty@magnumenergy.com](mailto:warranty@magnumenergy.com)

If returning your product directly to Magnum, you must:

1. Return the unit in the original, or equivalent, shipping container.
2. Receive a Return Materials Authorization (RMA) number from Magnum prior to the return of the product for service.
3. Place RMA numbers clearly on the shipping container or the packing slip.

When sending your product for service, please ensure it is properly packaged.

**Damage due to inadequate packaging is not covered under warranty.**

We recommend sending the product by traceable and insured service.

**BEFORE RETURNING ANY UNIT TO MAGNUM,  
A RETURN MATERIAL AUTHORIZATION (RMA) NUMBER IS REQUIRED.**