



# Shaver Industries

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## Electrical Assembly Instructions Motorized Curtain

### Electrical Connections:

The electrical connections to the in-tube motor should be made in a manner that conforms to all local and national electrical codes. The use of a licensed electrical professional is strongly recommended.

The roll tube motor is controlled by an RF Interface Box (Centralis) that works in conjunction with hand held transmitters and NEMA-4 wall mounted transmitters. Please note that only **ONE** motor can be wired to a Centralis interface box. Attempts to run multiple motors in parallel off of one Centralis box will result in erratic performance and the ultimate failure of the motors.

Locate the Centralis Interface within a few feet of the motor end of the motorized roll. It is suggested that the unit be mounted on the building fascia using a “best practices” methodology, and that the enclosure be oriented with all of the conduit and fittings facing “down” to ensure drainage.

115VAC Power with ground should be brought to the Centralis enclosure in an approved manner. The maximum current draw of the Centralis (operating one motor) should not exceed 3A. Conductors and branch circuit current limiting should be sized accordingly.

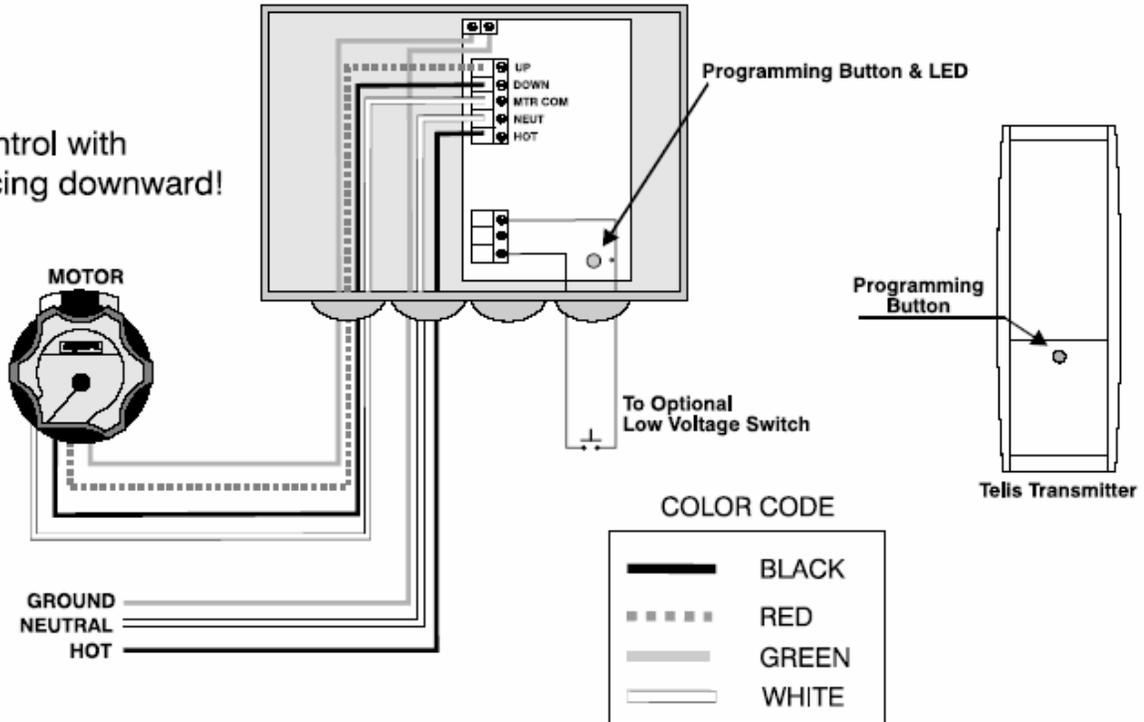
The four conductor (ground, neutral, forward, and reverse) motor wiring should also be brought to the Centralis enclosure in an approved manner. If solid waterproof conduit is not used a vertical “service loop” should be employed that ensure that water will not follow the path of the wiring back into the motor housing.

Refer to the following diagram (Diagram 1) for the appropriate AC Power wiring diagram for you motor and Centralis unit:

# WIRING DIAGRAM

**NOTE:**

Mount control with fittings facing downward!



**Diagram #1**  
(AC Wiring Connections)

**NOTE:** Local wiring codes and regulations may require that power and 115VAC motor wiring be encapsulated in conduit or that other conductor protection schemes be used. Please consult with a qualified and licensed professional electrician regarding the appropriate installation methods.

## Setup and Operation:

After the power wiring has been installed (and power has been enabled to the unit) it will be necessary to program the first transmitter into the receiver memory, check/modify the direction of motor rotation and set the curtain end-stop positions. Care should be exercised during these operations to avoid damage to the assembly and ensure a long service life of the unit.

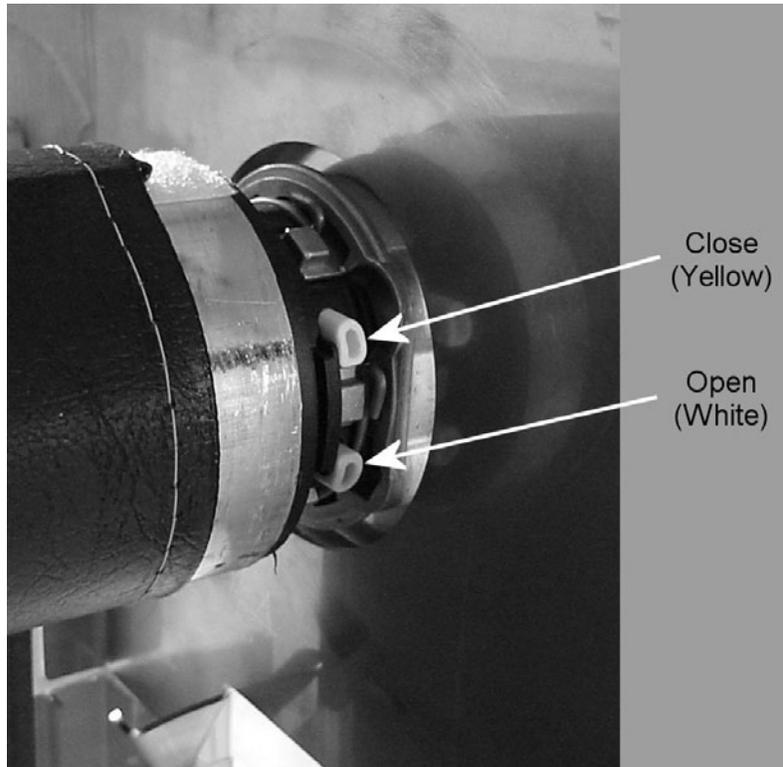
### Programming the First Transmitter:

Set the Centralis Receiver into programming mode by pressing the programming button on the unit (see Diagram 1 above) until the programming LED lights (about 5 seconds).

Press and release the programming button on the back of the hand held transmitter (see Diagram 1 above). The programming LED on the Centralis Receiver will blink indicating that the new transmitter has been memorized.

## Check/Modify Motor Rotation:

To check the direction of motor rotation it is necessary to completely disable the end-stop limit switches for the motorized roll. To do this, first make sure the STOP (center) button on the hand held transmitter has been pressed. Note the location of the Open and Close buttons as shown in the following photo (Photo 1)



**Photo #1**  
(Limit Switch Buttons)

To disable the limits, press each button firmly. The buttons should detent into a “depressed” position. It is wise to repeat this operation a few times to guarantee that the buttons have locked into the depressed position.

Press the “Close” (DOWN) button on the transmitter and observe the direction of curtain movement. Press the center (STOP) button as soon as this has been determined. If the “Close” direction is correct and corresponds to the “unwrapping” of the curtain then proceed to the next section (Setting End Stop Positions). If not, the direction control wiring must be reversed. This can most readily be accomplished by reversing the direction connections at the terminals of the Centralis Receiver. With power removed, disconnect the Black (Motor Direction #1) and Red (Motor Direction #2) connections from the terminals and reverse the connections. After the change has been made, enable the power and verify the proper directional operation of the curtain.

## Setting End Stop Positions:

Once the direction control of the motorized roll has been verified it is necessary to set the end stop positions for the curtain. This is a two-step operation and either end stop can be modified at any time without upsetting the other position. To set the “Full Down” (Closed) position press the “Close” (DOWN) button on the transmitter and monitor the position of the curtain. Press the STOP button as soon as the weighted bottom of the curtain reaches the desired elevation. This exact position can be adjusted by using the “Open”, “Close”, and “Stop” buttons in quick succession in order to “jog” the curtain. After the position has been established lock it into the motorized roll memory by depressing the Yellow (Close) button. The button should release from the “depressed” position and “pop out”. You can repeat this process a few times to verify that the button is no longer depressed.

To set the “Full Up” (Open) position press the “Open” (UP) button on the transmitter and monitor the position of the curtain. Press the STOP button as soon as the bottom of the curtain is within a few inches of the motorized roll (or lower). **DO NOT** allow the curtain to continue above this point. If it should happen to completely wrap around the motorized roll it will become necessary to reset the “Full Down” position via the above procedure. The exact “Open” position can be adjusted by using the “Open”, “Close”, and “Stop” buttons in quick succession in order to “jog” the curtain. After the position has been established lock it into the motorized roll memory by depressing the White (Open) button. The button should release from the “depressed” position and “pop out”. You can repeat this process a few times to verify that the button is no longer depressed.

The assembly, installation, and set-up of your Shaver's Motorized Curtain is now complete and it is ready for typical operation. It is a virtually maintenance free unit and should give you years of reliable service.

We want to thank you again for your business and the opportunity to partner with your firm on this project. Please don't hesitate to contact us if you have any questions regarding these instructions or encounter any problems with the installation or performance of your curtain.