

## USAGE AND INSTALLATION GUIDE FOR MICRO-ROTARY ENCODER LIMIT SWITCH

### Micro-Rotary Encoder Limit Switch Description:

The Micro-Rotary Limit Switch is designed to provide a simple means to override water features such as water falls and fountains to prevent the flow of water onto the cover when the cover is deployed over the pool.

### Specifications:

Feature Control Capabilities: 3-Way Valve  
 Motor Relay  
 Pool Controller

Maximum Switching Power: 60W, 125VA  
 Maximum Switching Voltage: 220VDC, 250VAC  
 Maximum Switching Current: 2 AMPS

30' 18/4 AWG 300V Water/Sunlight Resistant, Direct Burial, Indoor/Outdoor Wire Included

Unit is self powered by two (2) 10 year Lithium Primary AA Batteries

### General Operation:

The Micro-Rotary Limit Switch operates based on a sensor that is positioned on the non-motor side of the cover rollup tube. A trigger disc is inserted onto the rollup tube non motor end cone and the micro-rotary limit switch is attached to a bracket which attaches to the non-motor end cone brake. After the units home position is set, the Micro-Rotary Limit Switch detects the rotation of the cover to determine the covers position. When the cover moves to the open home position, the micro-rotary limit switch will activate a switch to turn on the water feature being interrupted or alert the pool controller that the cover has been opened.

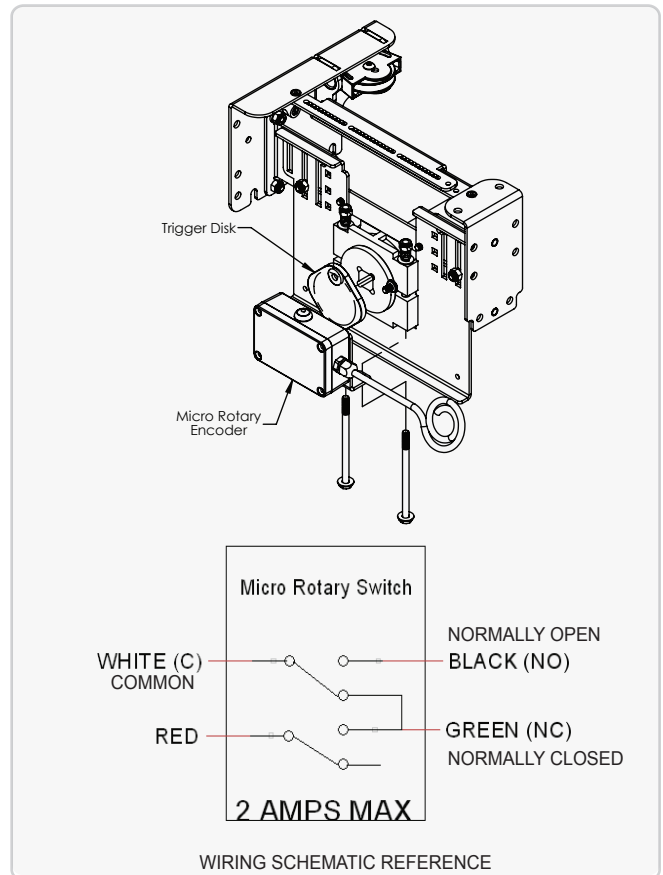
The rotary limit switch is an accurate device, however, due to different ways that a cover can roll up on the roll up tube exact positioning of the cover can vary up to 1 foot. The unit is internally powered by a set of long life AA lithium batteries and should last for over 10 years. When setting the home position there is only a single flash from the LED or no flash from the LED or the switch does not operate, replacement of the internal batteries maybe required.

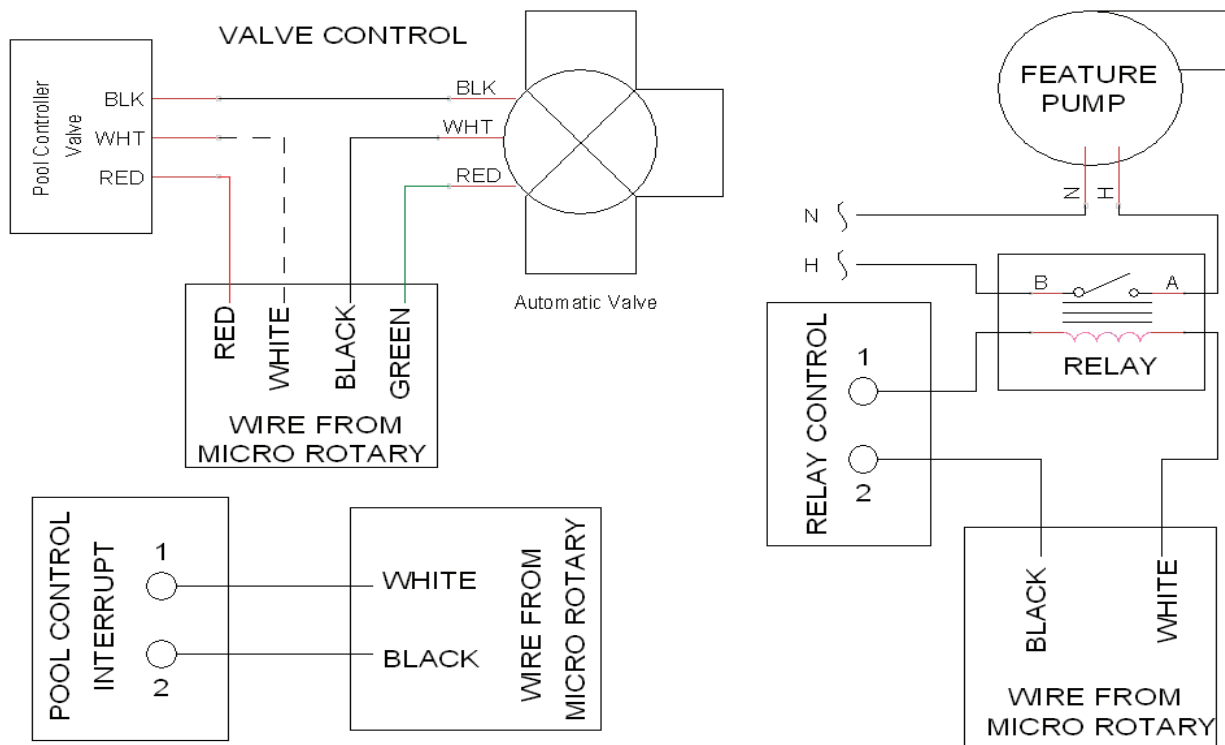
### Installing the Micro-Rotary Encoder Limit Switch:

1. Insert the trigger disc into the non-motor end access hole
2. Attach bracket and limit switch to the non-motor end brake by removing the two bolts from the brake and inserting the rotary limit switch mounting bracket between the brake and the bolts. Reassemble the non-motor end brake assembly.

### Wiring the Micro-Rotary Encoder Limit Switch:

The Micro-Rotary Limit Switch comes with 30 feet of outdoor rated 18AWG 4 conductor wire additional wire can be run as needed according to your local electric code. Do not run Low Voltage and High Voltage lines in the same conduit. The unit is configured to support one of the following: a 3 way valve, relay interrupt or feedback to a compatible pool controller. An example of each is shown on page 2.





### **Setting the Home Position:**

After installing the switch do the following.

1. **Position the cover where you want the feature to turn on.**  
(Typically about a foot in front of the cover open position)
2. **Press the button located on the top of the Micro-Rotary Limit Switch.** This sets the “Home” position and a LED inside of the button will blink 3 times.
3. **Operate the cover in the closing direction for at least 5 feet.**  
This sets the rotational direction for closing the cover.
4. Test to make sure the feature is turning off and on by moving the cover to the desired open position and seeing if feature has been actuated.
5. If steps 1 through 4 did not provide expected results repeat the configuration steps.  
Pressing the “Home” button again will reset the home position to the present location.

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