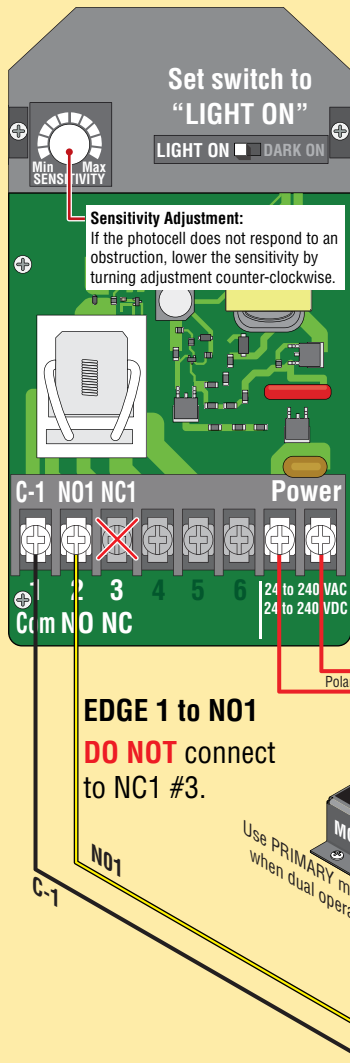


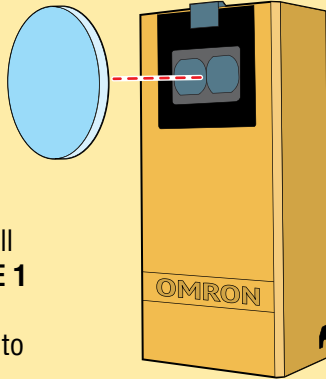
# Commonly used Safety Sensor Wiring



## OMRON E3K-R10K4 Photocell (Reflector) CLOSING Direction

### Installation Steps:

1. Set switch to "LIGHT ON"
2. Wire 12V power to photocell
3. Wire motor controller **EDGE 1** to photocell **NO1**  
Wire motor controller **GND** to photocell **C-1**
4. Align photocell to reflector
5. Adjust sensitivity

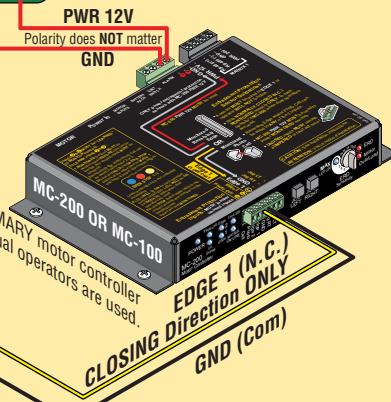


NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.

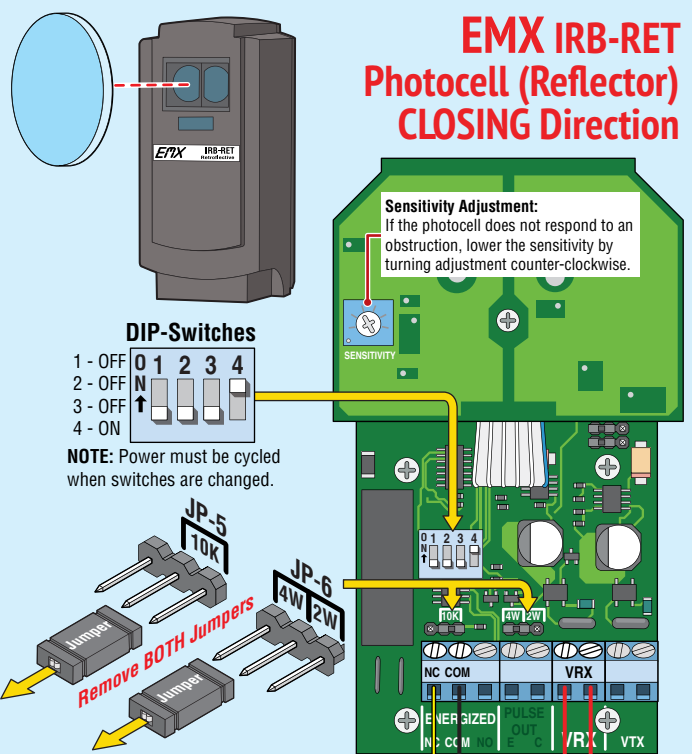
**IMPORTANT:** Photocell **MUST** be in alignment with reflector or fault will occur.

OK to use 12VDC

**EDGE 1 to NO1**  
**DO NOT** connect to NC1 #3.



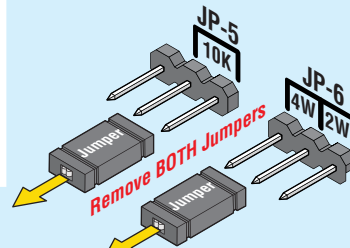
## EMX IRB-RET Photocell (Reflector) CLOSING Direction



### DIP-Switches

- |         |   |   |   |   |   |
|---------|---|---|---|---|---|
| 1 - OFF | 0 | 1 | 2 | 3 | 4 |
| 2 - OFF | N |   |   |   |   |
| 3 - OFF | ↑ |   |   |   |   |
| 4 - ON  |   |   |   |   |   |

NOTE: Power must be cycled when switches are changed.

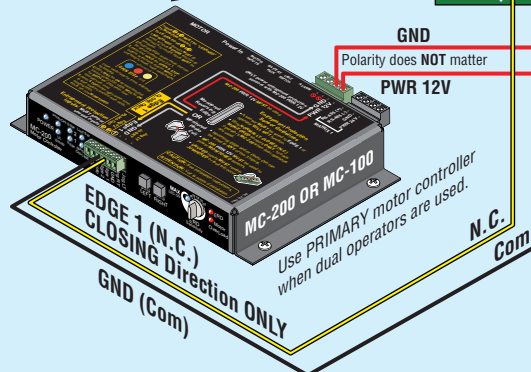


**IMPORTANT:** Photocell **MUST** be powered by MAX Motor Controller or it will **NOT** be **MONITORED**.

NOTE: To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.

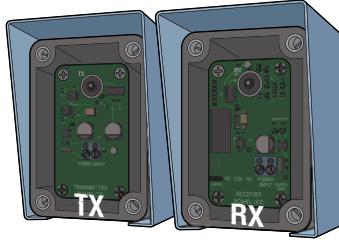
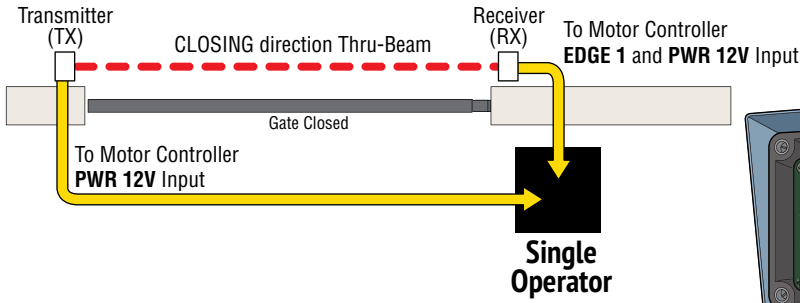
### Installation Steps:

1. Set DIP-switches
2. Remove jumpers JP-5 and JP-6
3. Wire 12V power to photocell (**VRX**)
4. Wire motor controller **EDGE 1** to photocell **NC (Energized)**  
Wire motor controller **GND** to photocell **COM (Energized)**
5. Align photocell to reflector
6. Adjust sensitivity



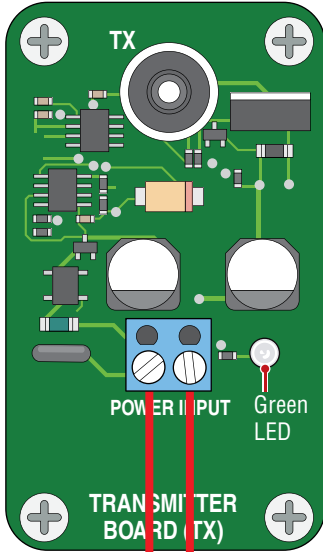
**Power NOTE:** If photocell does **NOT** function using **VRX** power input, connect power to **VTX** input instead.

# EMX IRB-MON Photocell (Thru-Beam) CLOSING Direction Single Gate Operator



**IMPORTANT:** Photocells **MUST** be in alignment or fault will occur. Green LED will remain **ON** receiver when in proper alignment.

## Transmitter (TX)



### Installation Steps:

1. Set DIP-switches on receiver.
2. Install jumper on receiver.
3. Wire 12V motor controller power to receiver.
4. Wire motor controller **EDGE 1** to receiver photocell **NC**. Wire motor controller **GND** to receiver photocell **COM**.
5. Wire 12V motor controller power to transmitter.
6. Align photocells.
7. Adjust sensitivity on receiver.

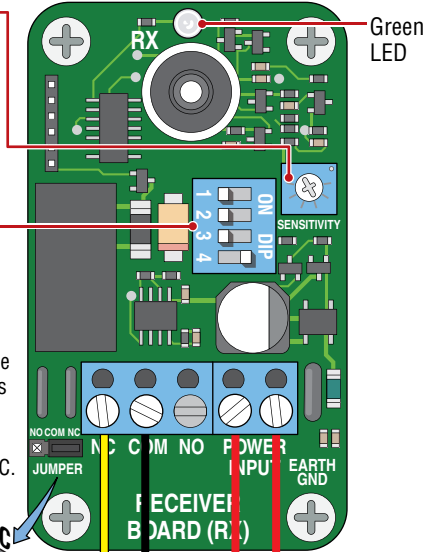
### Sensitivity Adjustment:

If the photocell does not respond to an obstruction, lower the sensitivity by turning adjustment counter-clockwise.

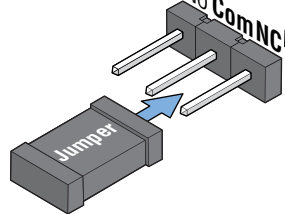
### DIP-switches:

1, 2, 3 are **OFF**. Switch 4 is **ON**. If trouble occurs, try turning switch 4 **OFF**. **NOTE:** Power must be cycled when switches are changed.

## Receiver (RX)

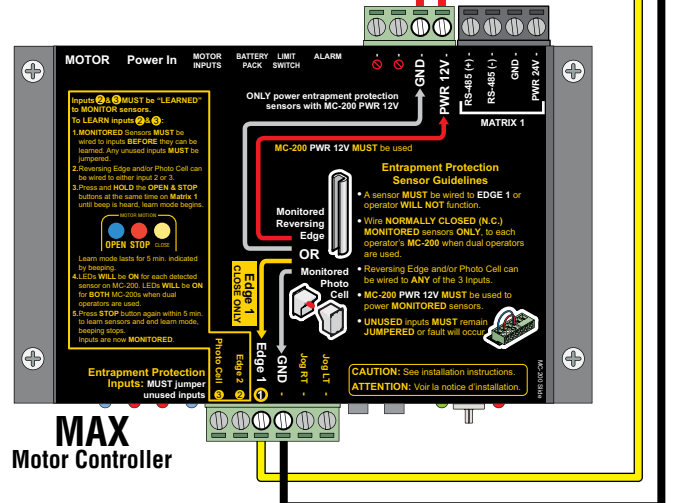


Jumper **MUST** be on Com-NC.



**PWR 12V**  
Polarity does **NOT** matter

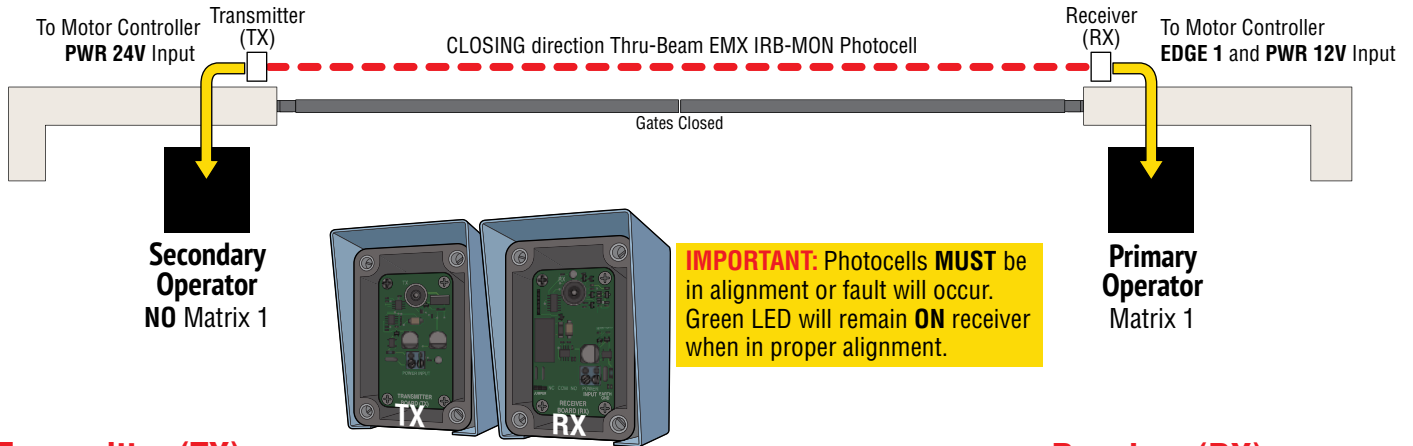
**IMPORTANT:** Photocells **MUST** be powered by Motor Controller or they will **NOT** be **MONITORED**.



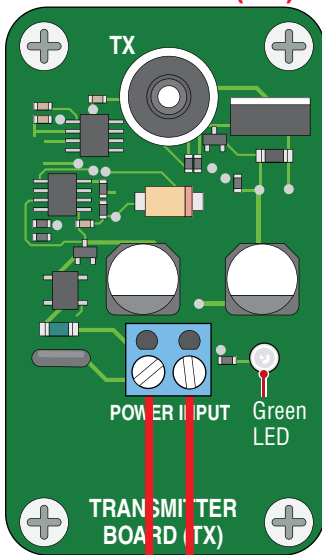
**NOTE:** MC-200 is shown but MC-100 has same connections.

**NOTE:** To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.

# EMX IRB-MON Photocell (Thru-Beam) CLOSING Direction Dual Gate Operators



## Transmitter (TX)

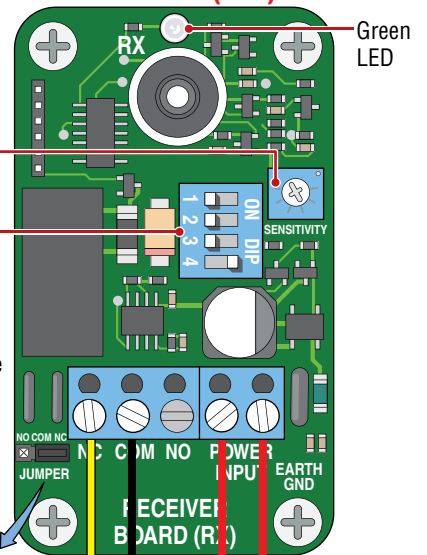


### Installation Steps:

1. Set DIP-switches on receiver.
2. Install jumper on receiver.
3. Wire **12V** Primary motor controller power to **receiver**.
4. Wire Primary motor controller **EDGE 1** to receiver photocell **NC**. Wire Primary motor controller **GND** to receiver photocell **COM**.
5. Wire **24V** Secondary motor controller power to **transmitter**.
6. Align photocells.
7. Adjust sensitivity on receiver.

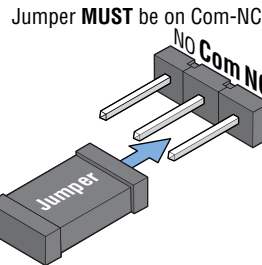
**IMPORTANT:** Photocells **MUST** be powered by Motor Controllers or they will **NOT** be **MONITORED**.

## Receiver (RX)



**Sensitivity Adjustment:**  
If the IRB-MON does not respond to an obstruction, lower the sensitivity by turning adjustment counter-clockwise.

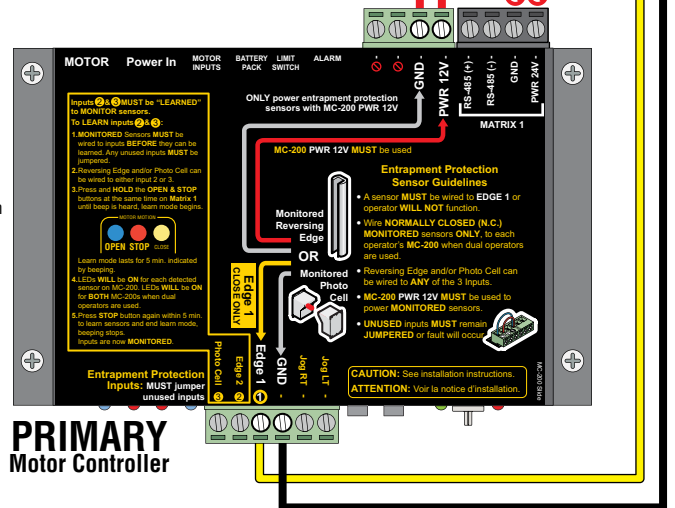
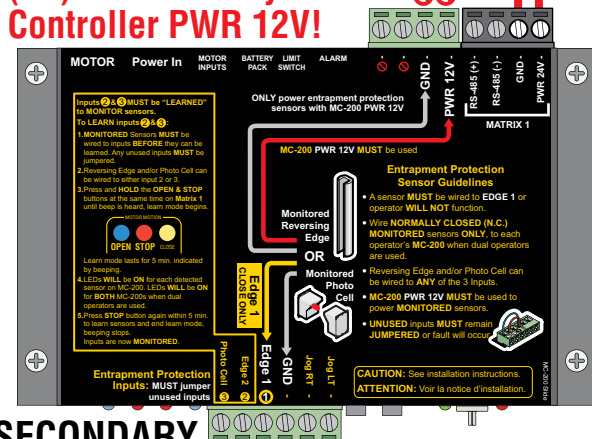
**DIP-switches:**  
1, 2, 3 are **OFF**. Switch 4 is **ON**.  
If trouble occurs, try turning switch 4 **OFF**.  
**NOTE:** Power must be cycled when switches are changed.



**DO NOT** wire Transmitter (TX) to Secondary Motor Controller PWR 12V!

**PWR 24V**  
Polarity does **NOT** matter

**PWR 12V**  
Polarity does **NOT** matter



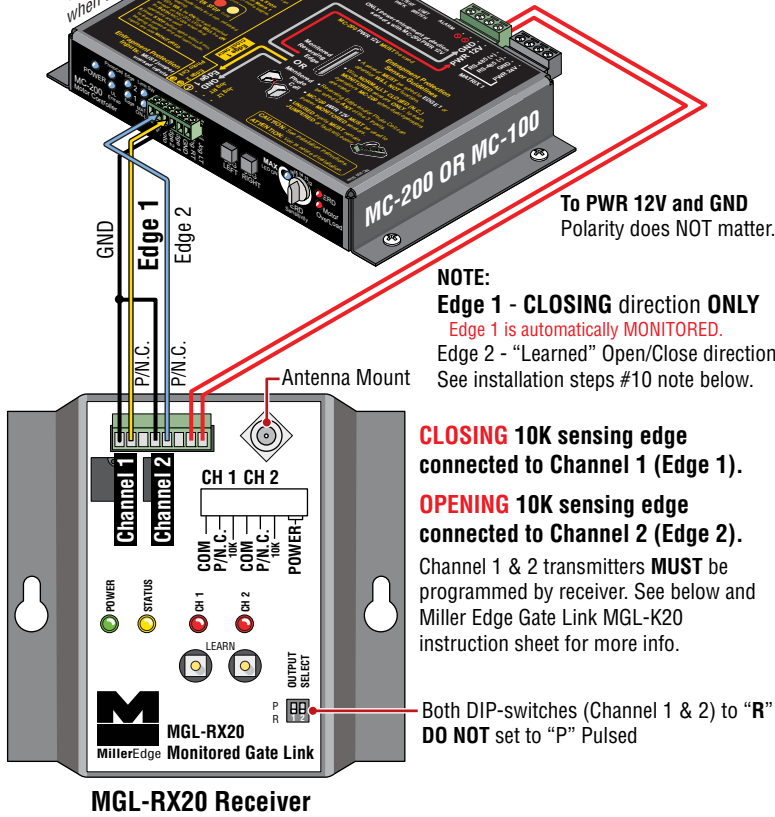
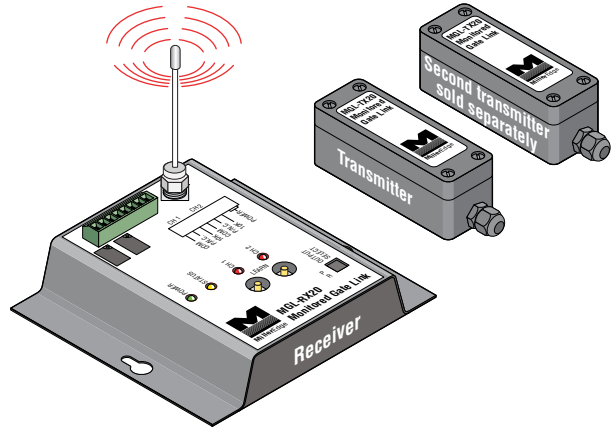
**NOTE:** To meet the UL 325 2016 standard, Type B1 Non-Contact sensor entrapment protection device **MUST** be **MONITORED** by the gate operator.

# Wiring a 2 Channel Wireless Miller Edge Gate Link

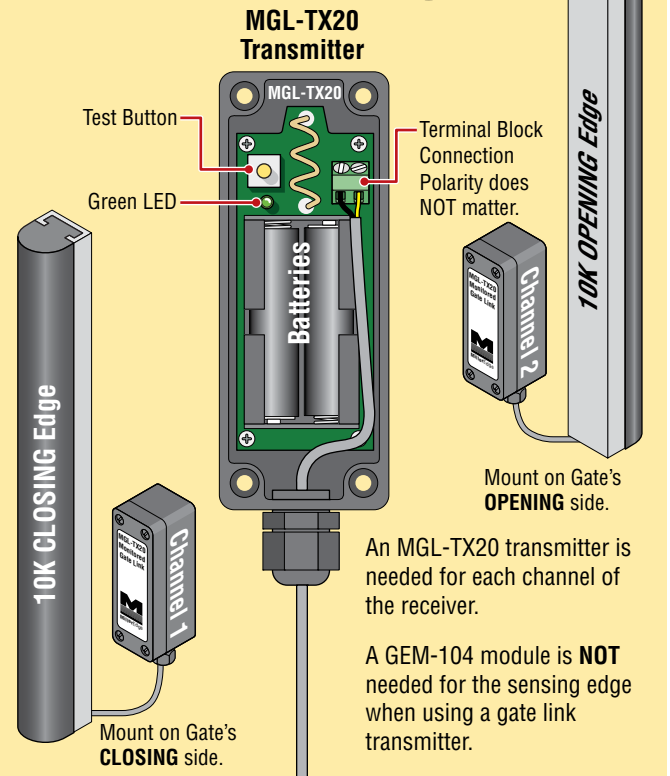
NOTE: To meet the UL 325 2016 standard, Type B2 Contact sensor entrapment protection devices MUST be MONITORED by the gate operator.

**MAX Motor Controller**  
Use PRIMARY motor controller when dual operators are used.

**IMPORTANT:** Receiver MUST be powered by MAX Motor Controller or it will NOT be MONITORED.



## Wire 10K Edges



### Installation Steps:

1. Set Both DIP-switches to "R" on receiver
2. Wire 12V power to receiver, polarity does not matter
3. Wire motor controller **EDGE 1** to receiver **CH 1-P/N.C.**  
Wire motor controller **GND** to receiver **CH 1-COM**
4. Wire motor controller **EDGE 2** to receiver **CH 2-P/N.C.**  
Wire motor controller **GND** to receiver **CH 2 - COM**
5. Install antenna on receiver
6. Install batteries in transmitters
7. Wire **Channel 1** Transmitter to **CLOSING** Edge ONLY
8. Wire **Channel 2** Transmitter to **OPENING** Edge
9. Program Channel 1 and 2 on MGL-RX20 receiver
10. Program MAX motor controller to "LEARN" Edge 2

**NOTE:** Edge 2 will function without being "Learned" but will NOT be MONITORED by the MAX gate operator.  
See your chosen Max operator manual to program the MAX motor controller to "Learn" Edge 2 if desired.

### Gate Link Receiver/Transmitter Programming:

1. Make sure receiver and transmitters have power.
2. Green power LED stays ON; CH 1 red LED will be blinking on receiver.
3. To enter Learn mode, press the CH 1 Learn button for 1 sec. The red led remains ON and the amber status LED will blink.
4. Activate the transmitting edge, the red and amber LEDs will alternately blink rapidly on receiver. Then the red LED will go out and the amber LED will remain ON.
5. Channel 1 is now programmed. Repeat steps for Channel 2.
6. To start over or erase programming, press and hold both LEARN buttons for 3 seconds. The LEDs will blink rapidly and then go into "fault" mode. Repeat the programming steps above.