



### IMPORTANT:

#### READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

The Miller Edge Model MWTA12 and MWT12 safety edge transmitters are designed to provide wireless signal transmission from the safety edge to the motor controls.

The Model MWTA12 includes an Audible Alarm feature indicating the battery should be replaced. Both the Miller Edge receiver and transmitter have a compact design which allows for easy trouble shooting via the see-thru case. Selectable features include: coded dip switches and a wire harness for relay options.

## 1- Parts List

### PART NUMBER

- MWR12 Single Channel Receiver
- MWT12 Single Channel Transmitter
- MWTA12 Single Channel Transmitter with low battery alarm

### Kits:

- MWRT12: includes MWR12, MWT12
- MWRTA12: includes MWR12 and MWTA12

### Tools Required:

- 1/8" Flat blade screwdriver for wire connections
- 1/4" Flat blade screwdriver for top lid screws

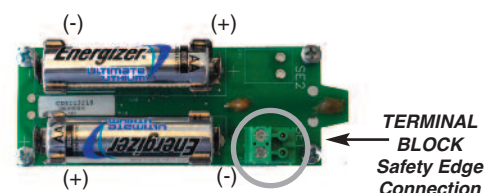
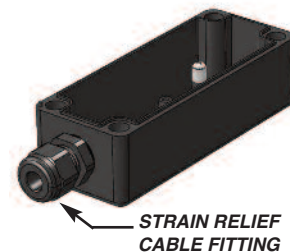
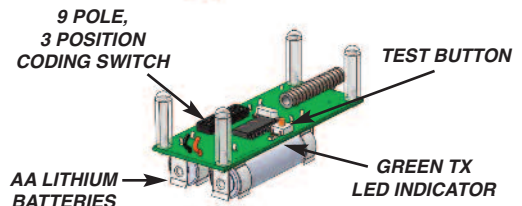
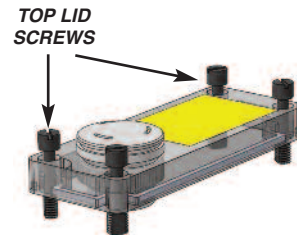
### Recommended:

- DVM for test purposes
- (4) #6 - 20 x 3/4" self-drilling screws included, Sensing edge (sold separately)

## 2- Install Transmitter and Test

- 2-1. Open and unpack the batteries, Transmitter and Receiver units.
- 2-2. Loosen *Top Lid Screws* on the Transmitter and remove lid. Remove the *Receiver Top Lid* by pressing one side of the snap lock base inward while lifting lid.
- 2-3. Set the *9 Pole, 3 Position Coding Switch* on the Receiver to match the Transmitter's *9 Pole, 3 Position Coding Switch*. Any switch position will work as long as the Transmitter *coding switch* and the Receiver *coding switch* are exactly matched (must be different from other nearby transmitters of the same type).
- 2-4. Place the two (2) *AA batteries* in their holders on the Transmitter in the proper direction, paying attention to the (+) and (-) ends. Momentarily press the *Test Button* on the Transmitter. The *Green Tx LED Indicator* should light for 3 seconds. To test the Alarm on the MWTA12 Model, press and hold the **Test Button**. The Alarm should sound in approximately ten (10) seconds. Release the **Test Button**.
- 2-5. Route the wires from the safety edge through the Transmitter's *Strain Relief Cable Fitting* for approximately four inches.
- 2-6. Strip the insulation from the two wires back 1/4". Pull the *Terminal Block* off the Transmitter's PCB. Place the safety edge wires in the *Terminal Block* and tighten with screwdriver. Re-seat the *Terminal Block* on the PCB (see Fig. 2-6).
- 2-7. Re-seat the PCB into the Transmitter Enclosure and securely tighten the *Strain Relief Cable Fitting*.
- 2-8. Now, compress your safety edge. The *Green Tx LED Indicator* should light for about 3 seconds.

**TRANSMITTER ENCLOSURE**  
*Shown with Optional Alarm*

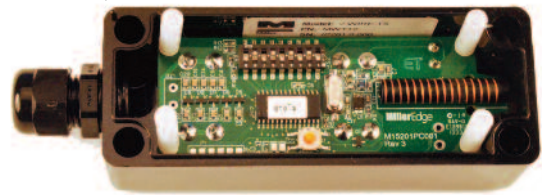


**Fig. 2-6 WIRE CONNECTION TO TERMINAL BLOCK**

## 2- Install Transmitter and Test Cont.

- 2-9. The four (4) *Pre-Drilled Corner Mounting Holes* are located on the far corners of the Transmitter Enclosure. Mount the Transmitter to the gate post, door end stile, or bottom angle using (4) #6 - 20 x 3/4" self-drilling screws. Mount the transmitter with the wire outlet facing down or to the side.
- 2-10. Replace the cover on the Transmitter and tighten the *Top Lid Screws*, taking care to align the lid.

(4) PRE-DRILLED  
CORNER  
MOUNTING HOLES



## 3- Install Receiver and Test

- 3-1. Set the *9 Pole, 3 Position Coding Switch* on the Receiver to match the Transmitter's *9 Pole, 3 Position Coding Switch*. Any switch position will work as long as the Transmitter *coding switch* and the Receiver *coding switch* are exactly matched (must be different from other nearby transmitters of the same type).
- 3-2. Mount Receiver inside the operator control box so that the wires from the receiver will reach the terminal strip on the operator.
- 3-3. Wiring:
- The red (+) and black (-) wires are your power leads. They connect to your operator panel terminals that provide the appropriate power (12-24 VAC/VDC). Black wire is common, Red wire is (+) or AC power.
  - The green wire is your standard antenna wire. This must be located outside of any metal enclosure to provide for good signal reception. There is an F-Connector antenna fitting included on the receiver in the event a remote antenna placement is needed.
  - Receiver Connections:** The white wire will go to your operator's low voltage common terminal. If your operator requires a normally open (N.O.) contact, connect the yellow wire to the operator's safety edge input. If the operator requires a normally closed (N.C.) contact, connect the orange wire to the operator's safety edge input.

RECEIVER ENCLOSURE

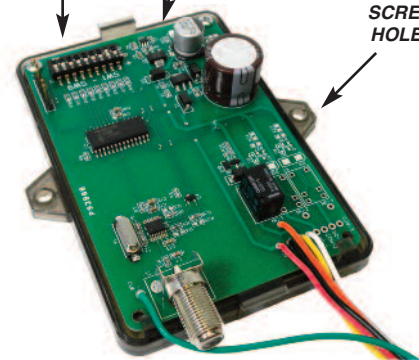


F-CONNECTOR  
ANTENNA  
FITTING

9 POLE,  
3 POSITION  
CODING  
SWITCH

LED  
INDICATORS

MOUNTING  
SCREW  
HOLES



ANTENNA

CH 1

### 3-4. Preliminary Test:

Confirm that once power is applied to the Receiver, it's green LED is lit. Now press the Transmitter's test button and notice that the red LED lights up on the Receiver and the green LED lights up on the Transmitter.

- 3-5. Replace the Receiver Top Lid.

## 4- Safety Test

- 4-1. While closing the door or gate, momentarily activate the safety edge and confirm that the motor stops and reverses the door or gate direction.

## **5- Specifications and Controls: Transmitter Unit**

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**Code Switch:** Selectable 9 pole, 3 position DIP

**Frequency:** 318 MHz.

**Indicator Lights- Tx:** Green LED: Tx Data

**Mounting:** (4) #6 self drilling screws included

**Power Source:** Batteries: 2 AA, 1.5v Alkaline or Lithium\*

\*Recommended for extended life in prolonged cold environments. Life expectancy: 2 yrs.

**Enclosure Rating:** NEMA4

**Modulation:** On-Off Keying

**Cable Connections:** Screw clamp type terminal blocks for 14-26 awg wire.

**Dimensions:** MWT12: 5.75"w x 1.75"h x 1.8"d

MWTA12: 5.752"w x 2.125"h x 1.8"d

**Antenna:** Integral helical antenna.

**Test Button:** Momentary push button – Forces the transmission of the transmitter's address.

**Low Battery:** Model #MWTA12 only: 80-95dB Audible Alarm

**Transmitted Signal Duration:** Approx. 3 seconds

**Response Time:** Nominal 70 msec; Safety Edge Input to Receiver Relay Contact Output.

## **6- Specifications and Controls: Receiver Unit**

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**Code Switch:** Selectable 9 pole, 3 position DIP

**Indicator Lights - Rx:** Green LED: Power on; Red LED: Relay energized, indicates safety edge activation

**Power Source:** 10 to 40 VDC, 10-30 VAC (RMS)

**Power Consumption:** 16 mA (Idle) with Relay Off; 53 mA (avg.) with Relay On

**Dimensions:** 4.9"w x 3.75"h x 1.2"d

**Cable Connections:** Integral 18" wiring with #6 spade lugs.

**Maximum Operating Distance:** 100 Feet

## **7- FCC Compliance**

### **Transmitter:**

FCC ID: OYE-MWT120

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.

1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE  
AND

2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

### **Receiver:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which may be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1- Re-orient or relocate the receiver antenna
- 2- Increase the separation between the equipment and the receiver
- 3- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4- Consult the dealer or an experienced radio/TV technician for help.

Changes or Modifications Not Expressly Approved By The Party Responsible For Compliance Could Void The User's Authority To Operate The Equipment.

**For more information, please visit [www.devancocanada.com](http://www.devancocanada.com) or call toll free at 855-931-3334**

***HOW TO ORDER  
REPAIR PARTS***

**DEVANCO CANADA**

19192 HAY ROAD, UNIT Q  
SUMMERSTOWN, ON K0C 2E0

TOLL FREE: 855-931-3334

[www.devancocanada.com](http://www.devancocanada.com)

**WHEN ORDERING REPAIR PARTS  
PLEASE SUPPLY THE  
FOLLOWING INFORMATION:**

- ✓ PART NUMBER
- ✓ DESCRIPTION
- ✓ MODEL NUMBER