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**INSTALLATION INSTRUCTIONS**

Models: MEL-II-RX10  
MEL-II-TX10  
MEL-II-TX20

**IMPORTANT: READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION**

The Monitored Edge Link II (MEL-II) transmitter/receiver system provides a wireless connection between a Miller Edge monitored sensing edge and a commercial door operator. MEL-II meets the UL 325 requirements for monitored devices and has been certified as a UL 325 Recognized Component. It is designed for use on operators that comply with UL 325 using a Miller Edge Sensing Edge.

<table>
<thead>
<tr>
<th>Miller Edge Sensing Edge Type</th>
<th>T2 (10K Resistor)</th>
<th>T3 (Diode Capacitor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEL-II Receiver Model</td>
<td>MEL-II-RX10</td>
<td>MEL-II-RX10</td>
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<tr>
<td>MEL-II Transmitter Model</td>
<td>MEL-II-TX10</td>
<td>MEL-II-TX20</td>
</tr>
</tbody>
</table>

**1-Parts List**

**Kit Contents:**
- MEL-II Transmitter
- MEL-II Receiver
- Receiver antenna
- (2) AA lithium batteries
- (4) #6 pan head Transmitter mounting screws

**Required:**
- 1/8” flat blade screwdriver
- 1/4” flat blade screwdriver
- Miller Edge Sensing Edge

**Recommended:**
- VOM for test purposes
- Mounting screws as required for Receiver
- Miller Edge Edge Tester (MET-101)

**MEL-II COMMERCIAL DOOR INSTALLATION**
2-Receiver Setup

Please note: It may be easier to pre-learn the Transmitter to the Receiver prior to physically mounting the devices (see Section 3). A sensing edge is not needed for the learn process.

2-1. Turn the power off to the commercial door operator. Mount the Receiver on or near the operator.

2-2. Attach the antenna to the Receiver. The antenna should be in line-of-sight of the Transmitter.

2-3. On the 8-pin connector, connect the power source (12-24 VAC/DC) to the terminals marked power (not polarity sensitive). Next, connect the channel 1 COM and the pulsed terminals to the operator photo eye inputs (not polarity sensitive). The output select dip switch 1 must be set to P. Switch 2 has no function.

2-4. Apply power to the Receiver. Observe that the green power and yellow status LEDs are on. The red CH 1 LED will blink, and the CH 2 LED will be on solid. After 15 seconds, the CH 2 LED will go out. If the yellow status LED is blinking randomly, the Transmitter has already been learned (see Section 3) and is functioning properly.

2-5. In limited instances, if you need to utilize the relay output of CH 1, instead of the pulsed output, simply use the 10K/N.O. and COM terminals (instead of the pulsed and COM) and set the output select to “R”.

FOR NORMALLY OPEN OUTPUT
The P18 jumper on the Receiver circuit board will need to be cut. Simply remove the 4 screws on the rear of receiver and then remove 4 standoffs to access P18, which is located near the 8-pin connector. Set output select DIP switch 1 to R.

3-Learn Mode

3-1. Prior to mounting the Transmitter, remove lid, and insert the batteries, noting their polarity. The green power LED should blink once every second. Press the test button located next to the green power LED, and note that the green power LED flashes rapidly 3 times.

3-2. To enter learn mode for channel 1, press and hold the learn button on the Receiver for ~2 seconds until the yellow status LED blinks rapidly and both red CH 1 and CH 2 LEDs turn on.

3-3. Within 60 seconds, press the Transmitter test button for ~2 seconds. Note that the yellow status LED and the red CH 1 LED on the Receiver blink rapidly. Release the Transmitter test button. Channel 1 is now programmed and CH 1 LED will be blinking rapidly.

3-4. Connect the monitored sensing edge to the Transmitter. Press the Transmitter test button again and note that the red CH 1 LED on the Receiver turns on solid.

3-4. To start over or to erase programming, press and hold both test buttons for ~3 seconds until the yellow status LED is on steady. The CH 1 LED will blink and CH 2 will go out after ~15 seconds. Both red CH 1 and CH 2 LEDs will blink slowly. Restart the learn procedure.

<table>
<thead>
<tr>
<th>Power (green)</th>
<th>On steady</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status (yellow)</td>
<td>Blinking intermittently</td>
</tr>
<tr>
<td>CH1 (red)</td>
<td>Off when idle / On steady when edge is active</td>
</tr>
<tr>
<td>CH2 (red)</td>
<td>Off (not used)</td>
</tr>
</tbody>
</table>

MEL-II RECEIVER: PROPER FUNCTION INDICATED BY LED LIGHTS
4-Install Transmitter and Test

4-1. Strip back approximately 3 1/2" of the outer covering of the sensing edge cable, then feed it through the Transmitter strain relief fitting. Connect the two edge wires to the removable terminal block (not polarized). Dress the wires next to the battery holder and tighten the strain relief. Mount the unit utilizing the 4 corner mounting holes of the Transmitter box. Place the lid onto the Transmitter, noting the alignment pin and tighten the top lid screws.

4-2. Test sensing edge for functionality (See Section 5: Indicator Lights for proper LED function).

5-Specifications and Controls: Transmitter Unit

Frequency: 916 MHz, FSK modulation
Indicator Lights:
- Green LED:
  - Flashes every 2 seconds: Indicates monitoring
  - Blinks upon activation and release of the sensing edge: Indicates transmission
Mounting: 4 corner screws (provided)
Power Source: Batteries: 2 AA, 1.5V lithium* or alkaline
*Recommended for extended life in prolonged cold environments. Life expectancy: 2 years
Dimensions: 1.80"W x 4.78"H x 1.75"D
Test Button: Momentary push button—forces the transmission of the Transmitter's address and sensor status. Reports the edge is activated.
**6-Specifications and Controls: Receiver Unit**

- **Power:** 12-24 VAC/DC nominal (8-30 V maximum); power may be supplied from the operator or alternatively from an external supply. 100 mA maximum.

- **Cable Connections:** Screw clamp type terminal blocks for 18-26 AWG wire

- **Learn Buttons:** Used to associate a Transmitter with the desired receiver channel

- **Output Selector:** Select “P” for Pulsed or “R” for Relay (10K or N.O.) mode; switch 2 is not used

- **Dimensions:** 4”W x 4.74”H x 1”D

- **Indicator Lights:**
  - Power LED (green): Indicates power
    - On solid: Device is powered on
  - Status LED (yellow): Indicates status of MEL-II
    - Blinks off: Indicates reception of message with selected address
    - On solid: No Transmitters learned
    - Fast blink: Learn mode
    - Random blink: Transmitter is learned and sending
  - Channel LEDs (red): Indicates safety device is active
    - On solid: Active sensing edge
    - Off: No faults (Note: CH 2 LED will go off after ~15 seconds when not used)
    - Fast blink: Termination fault
    - Medium blink: Communications fault
    - Slow blink: Low battery

- **Connections:**
  - Power (2)
  - Output (3 per channel – COM, Pulsed, N.O./10K)

- **Modes:** Refer to your operator’s manual
  - Pulsed (photo eye)
  - N.O. (normally open)
  - 10K resistor

**7-FCC Compliance**

**TRANSMITTER:**
MODEL: MEL-II-TX10 or MEL-II-TX20

**FCC ID:** OYE-MGL916

**THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS 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 UNDESIRED OPERATION.

**RECEIVER:**
MODEL: MEL-II-RX10

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part15 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.