**Model: MEL-II-K10**

**INSTALLATION INSTRUCTIONS**

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

The Monitored Edge Link II (MEL-II) transmitter/receiver system is intended to provide a wireless connection between a monitored safety edge and a motorized operator that controls the associated door. 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 10K (T2) terminated sensing edge.

Please note: It may be easier to pre-learn the Transmitter to the Receiver prior to physically mounting the devices. A Miller Edge 10K Sensing Edge is not needed for the learn process.

1. Apply power to the receiver using a plug-in 12-24V wall transformer.
2. Insert the two AA batteries into the Transmitter battery holder.
3. Press CH1 learn button until the yellow status LED starts to blink rapidly (this is now learn mode).
4. Within 60 seconds, press the test button on the Transmitter and observe on the Receiver that the CH1 and status LEDs are blinking rapidly and alternately. Release Transmitter test button.
5. The CH1 red LED will continue to blink rapidly until the 10K sensing edge is connected to the Transmitter.

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### Parts List

**Kit Contents:**
- MEL-II-TX10 Transmitter unit
- MEL-II-RX10 Receiver unit
- 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 10K (T2/blue band) Sensing Edge

**Recommended:**
- VOM for test purposes
- Mounting screws as required for Receiver

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![Diagram of MEL-II-K10 Commercial Door Installation](MEL-II-k10_inst_20170323)
2-Install Receiver

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 been learned and is working.

2-5. In limited instances, if you need to utilize the relay output of Ch 1, instead of the pulsed output, simply utilize 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.

3-Learn Mode

3-1. Prior to mounting the Transmitter, remove the lid and insert the batteries, noting their polarity. The green power LED should blink once every second. Press the test button, 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. 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. Immediately release the Transmitter test button. Channel 1 is now programmed. CH 1 LED will be blinking rapidly (indicating no edge has been connected) until your 10K sensing edge is connected 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 erase programming, press and hold both test buttons for ~3 seconds until the yellow status LED stays on steady. CH 1 LED will be blinking and CH 2 will go out after ~15 seconds and release. Both red CH 1 and CH 2 LEDs will blink slowly. Restart the learn procedure.
4-Install Transmitter and Test

4-1. Strip back approximately 4 inches of outer covering of sensing edge cable, then feed through Transmitter strain relief fitting. Connect the two edge wires to the removable terminal SE1 (not polarized). Dress the wires next to the battery holder and tighten the strain relief. Mount unit utilizing the corner mounting holes at the 4 corners of the Transmitter box. Place lid onto Transmitter, noting alignment pin.

4-2. Test all safety edges for functionality.

5-Specifications and Controls: Transmitter Unit

Frequency: 916 MHz, FSK modulation

Indicator Lights: Green LED: Tx Data, flashes upon activation and release of the external safety device to indicate transmission. Flashes every 2 seconds to indicate monitoring.

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 max); power may be supplied from the operator or alternatively from an external supply

**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:**
- Green LED: Indicates power
  - On solid: Device is powered on
- Yellow LED Blinks off: Indicates reception of message with our selected address
  - On solid: No Transmitters Learned
  - Fast blink: Termination fault
  - Random blink: Transmitters are Learned and sending
- Red LED: Indicates safety device is active
  - On solid: Active sensing edge
  - Fast blink: Termination fault
  - Medium blink: Communications fault
  - Slow blink: Low battery
  - Off: No faults (Note: CH 2 LED will go off after ~15 seconds if not used)

**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
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 UNDESIR ED 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.