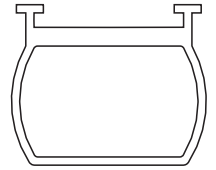




# SENSING EDGE

## ME123



### IMPORTANT

Read and understand all instructions before beginning installation. All Miller Sensing Edges are inspected and tested before being shipped to ensure against damage. If the shipping container appears to be damaged, please notify the carrier immediately.

The Miller Edge ME123 Style Sensing Edge is a UL Recognized Component that meets the UL 325 requirement. Compatible with most operator brands, Sensing Edges are touch sensitive sensors designed to protect entrapment zones along the leading edge of automated doors or other motorized equipment. Consult your manual for detailed instructions about connecting to the motor.

### CONTENTS

- Miller Edge ME123 Sensing Edge

### REQUIRED

- 18-22 gauge wire
- Miller Edge mounting channel
- Mounting channel mounting screws

### OPTIONAL

- Connection methods:
  - Miller Edge wireless edge transmitter/receiver
  - Coil cord
  - Retracting reel
  - Junction box(es)
- Signature Module (SM-101, SM-102)

### SUGGESTED

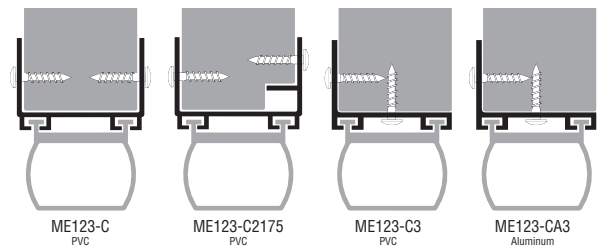
- Operator installation manual
- Edge Tester (MET-101)
- Ohm meter (capable of measuring 10K)

## 1. INSTALLATION SETUP

1. All Miller Edge sensing edges are inspected and tested prior to shipment to ensure quality. Upon opening the shipping box, inspect your sensing edge and wiring for shipping damage. If the shipping container appears to be damaged, please notify carrier immediately.
2. Un-box and lay the sensing edge out straight. This will allow the edge to relax and return to its original shape.

## 2A. MOUNTING CHANNEL INSTALLATION (DOORS)

1. Slide the edge into the mounting channel.
2. Align the edge and mounting channel to the leading edge of the door.
3. Adjust the close limits on the motor for a maximum compression of .25" (6 mm).
4. Attach the channel to the by drilling self-tapping screws into the mounting channel, starting 3" (7 cm) from the ends and spaced approximately every 24".

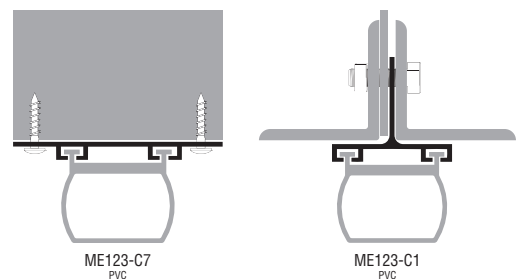


### TECH TIP

To compensate for floor irregularities, gently curve the mounting channel up or down to close any gaps between the edge and the floor, wall, or other permanent fixture.

## 2B. MOUNTING CHANNEL INSTALLATION (OTHER)

1. Attach the channel to the by drilling self-tapping screws into the mounting channel, starting 3" (7 cm) from the ends and spaced approximately every 24".
2. Slide the edge into the mounting channel.
3. Adjust the close limits on the motor for a maximum compression of .25" (6 mm).

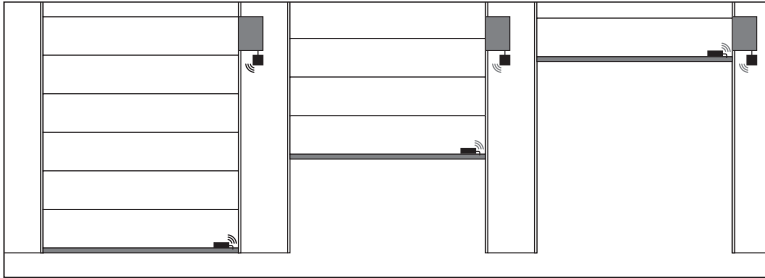


MOUNTING CHANNEL STYLES & POSSIBLE HARDWARE PLACEMENT

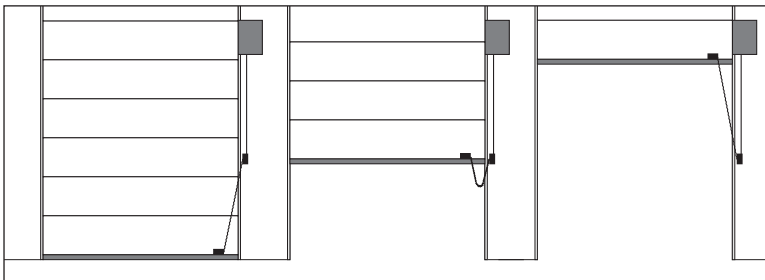
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## 3. SENSING EDGE INSTALLATION

### WIRELESS METHOD

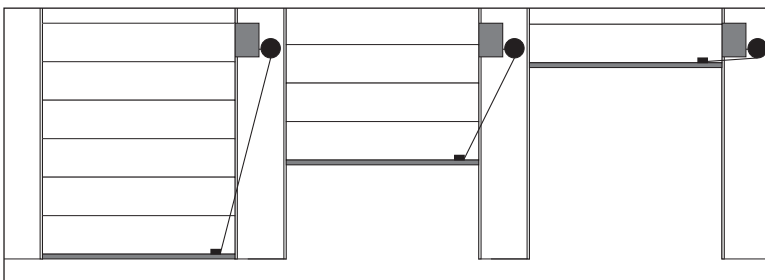


### COIL CORD METHOD



Note: For specific operator input connection diagrams and instructions, please consult your operator manual.

### RETRACTING REEL METHOD



Note: For specific operator input connection diagrams and instructions, please consult your operator manual.

### REQUIRED

Miller Edge wireless edge transmitter/receiver system

### INSTALLATION

1. Consult the Miller Edge transmitter/receiver installation instructions for wiring of the sensing edge.
2. For proper connection to operator inputs, please consult the operator manual.

### REQUIRED

Junction boxes (2)      Mounting screws  
Wire end caps          18-22 gauge wire

### INSTALLATION

1. Mount the first junction box on the end stile or bottom bar of the door.
2. Run the sensing edge lead wire into the junction box.
3. Mount the second junction box on an adjoining wall, midway between the floor and the operator.
4. With the door in the closed position, secure the coil cord to the first junction box.
5. Then run it, fully stretched, to the second wall mounted junction box so the stretched length is equal to one-half of the door opening.
6. Secure the coil cord into the wall junction box and trim the coil cord. This assures the excess coil cord will not get caught or hang in the opening of the door.
7. Secure 18-22 gauge wire into the second wall-mounted junction box and hard wire to the operator sensing edge terminals.

### REQUIRED

Junction box (1)      Mounting screws  
Wire end caps          18-22 gauge wire

### INSTALLATION

#### **NOT SUITABLE FOR MONITORED SENSING EDGES**

1. Mount the junction box on the end stile or bottom bar of the door.
2. Run the sensing edge lead wire into the junction box.
3. Mount the retracting reel on an adjoining wall, near the operator.
4. With the door in the closed position, secure the retracting reel cable to the junction box. The cable should freely extend, without rubbing, in and out of the retracting reel for the duration of the open/close cycle.
5. Using the 18-22 gauge wire, hardwire the retracting reel to the sensing edge terminals of the operator.

## 4. TROUBLESHOOTING

### SENSING EDGE SHIFTING

#### REQUIRED

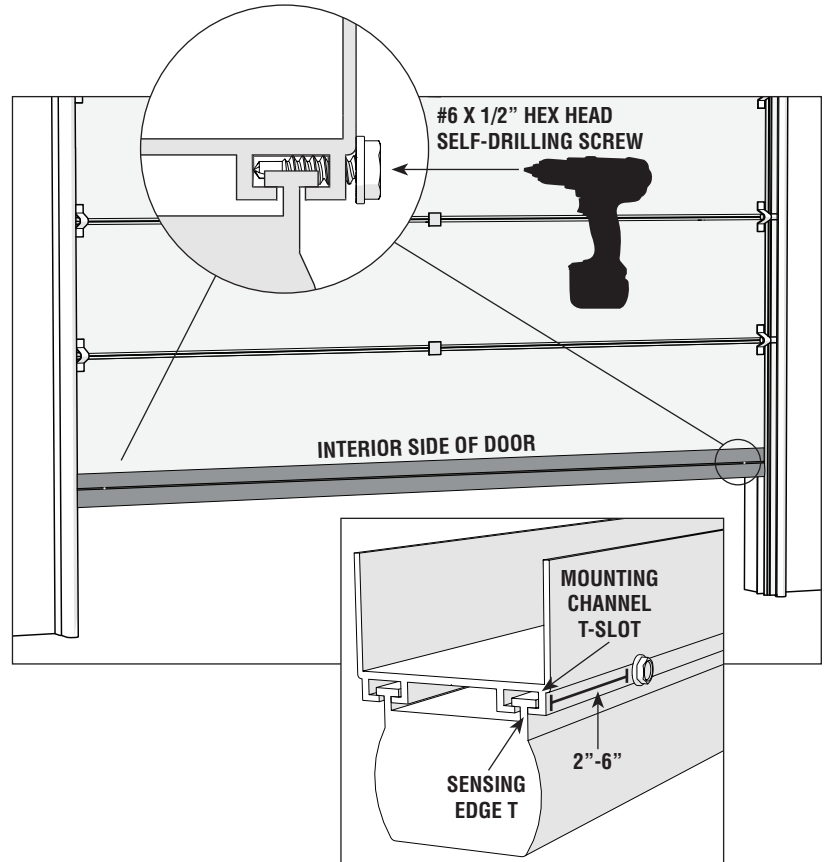
- (2) #6 x 1/2" self-drilling hex head screws
- 1/4" standard socket

#### INSTALLATION

To prevent the Sensing Edge from shifting within the mounting channel:

1. Mount the Miller Edge mounting channel and Sensing Edge in accordance with **Step 3: Sensing Edge Installation**.
2. Insert **self-drilling screws** horizontally into the face of the mounting channel **T-Slot** 2"-6" from the end of the interior side of the door.
3. Repeat step 2 on the opposite end of the inside of the door.

Caution: Keep all tools away from the body of the Sensing Edge.



### SENSING EDGE CHECK

#### SUGGESTED

- Edge Tester (MET-101)
- Ohm meter (capable of measuring 10K)

#### TEST

Test the sensing edge for function:

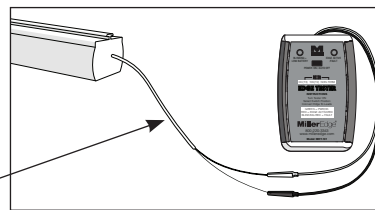
1. To verify the termination of a 10K ohm (T2) sensing edge, use a **Edge Tester (MET-101)** or an **ohm meter**; the edge resistance should be ~10K ohms (9.5-10.5K).
2. To verify the termination of a diode capacitor (T3) sensing edge, use a **Edge Tester (MET-101)**; this is the only method to test a T3 sensing edge.
3. Press the Sensing Edge to confirm the resistance is less than 5 ohms.

#### TECH TIP

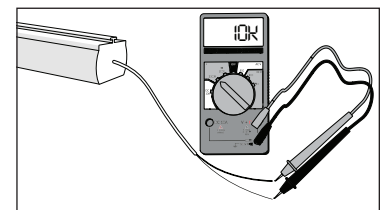
To determine sensing edge termination, note the colored band on the sensing edge cable:

BAND COLOR	TERMINATION	TYPE
Green	8.2K Ohm Resistor	T1
Blue*	10K Ohm Resistor	T2
Red*	Diode Capacitor	T3
White	Capacitor	T4
Orange	6.8K Ohm Resistor	T5
Purple	270K Ohm Resistor	T6
None	Non-terminated	-

\*Most Commonly used.



EDGE TESTER (MET-101)




OHM METER

### TECH SUPPORT

For additional assistance, contact Miller Edge Tech Support: 800-220-3343

## GENERAL SPECIFICATIONS

Length	Per spec to +/- .25" or 6 mm
Lead Wire	2 ft. length of 18 or 22 gauge SJTO
Sensitivity	Nominal 6-11 lbf
Electrical Maximum	24 VAC/DC, 1/2 amp
Contact Element	Alumaglas®
Materials	Extruded flexible PVC
Temperature Rating	-30°F to +155°F or -34°C to +68°C
Warranty	1 year
Ratings	 us UL 325 Recognized Component

## ELECTRICAL CONFIGURATION OPTIONS

- 2-Wire 8.2K Ohm Resistive (T1/green band)
- 2-Wire 10K Ohm Resistive (T2/blue band)
- 2-Wire Diode Capacitor (T3/red band)
- 2-Wire Capacitor (T4/white band)
- 2-Wire 6.8K Ohm Resistive (T5/orange band)
- 2-Wire 270K Ohm Resistive (T6/violet band)
- 2-Wire Non-Monitored
- 4-Wire Monitored
- Bumper (no sensor)

## MAINTENANCE

It is strongly recommended that end users test the Sensing Edge at least once per month. Check the Sensing Edge for cuts, loss of sensitivity, or water damage. Also check for signs of damage to cables or connection points. Starting 2" from the ends, compress the Sensing Edge 1/2" throughout the length of the edge and observe that it sends an electric signal to the controls.

## REPLACEMENT

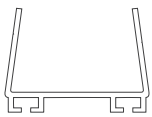
To replace your Miller Edge Sensing Edge, contact your Miller Edge sales representative. Attempt to repair your Miller Edge sensing edge is not recommended and will void the manufacturer warranty.

## WARRANTY

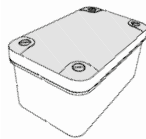
Miller Edge, Inc. will replace within one year of shipment from factory any Sensing Edge subject to normal use, which is found to have defective materials or workmanship, as determined solely by our factory representative. Replacements will be shipped to you freight collect. This warranty is void where evidence of misuse or abuse is present.

## ACCESSORIES

Contact your Miller Edge sales representative for sensing edge accessories:



**MOUNTING CHANNELS**



**JUNCTION BOXES**



**COIL CORDS**



**RETRACTING REELS**



**TRANSMITTERS/  
RECEIVERS**



**MODULES**