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 the 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).
3. SENSING EDGE INSTALLATION

**WIRELESS METHOD**

![Diagram of wireless method installation]

**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**
- Miller Edge wireless edge transmitter/receiver system

**COIL CORD METHOD**

![Diagram of coil cord method installation]

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

**RETRACTING REEL METHOD**

![Diagram of retracting reel method installation]

**INSTALLATION**
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.

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

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

<table>
<thead>
<tr>
<th>BAND COLOR</th>
<th>TERMINATION TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>8.2K Ohm Resistor T1</td>
</tr>
<tr>
<td>Blue</td>
<td>10K Ohm Resistor</td>
</tr>
<tr>
<td>Red*</td>
<td>Diode Capacitor</td>
</tr>
<tr>
<td>White</td>
<td>Capacitor</td>
</tr>
<tr>
<td>Orange</td>
<td>6.8K Ohm Resistor</td>
</tr>
<tr>
<td>Purple</td>
<td>270K Ohm Resistor</td>
</tr>
<tr>
<td>None</td>
<td>Non-terminated</td>
</tr>
</tbody>
</table>

*Most Commonly used.

TECH SUPPORT
For additional assistance, contact Miller Edge Tech Support: 800-220-3343
GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Per spec to +/- .25&quot; or 6 mm</td>
</tr>
<tr>
<td>Lead Wire</td>
<td>2 ft. length of 18 or 22 gauge SJTO</td>
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<tr>
<td>Sensitivity</td>
<td>Nominal 6-11 lbf</td>
</tr>
<tr>
<td>Electrical Maximum</td>
<td>24 VAC/DC, 1/2 amp</td>
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<tr>
<td>Contact Element</td>
<td>Alumaglas®</td>
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<tr>
<td>Materials</td>
<td>Extruded flexible PVC</td>
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<tr>
<td>Temperature Rating</td>
<td>-30°F to +155°F or -34°C to +68°C</td>
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<tr>
<td>Warranty</td>
<td>1 year</td>
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<tr>
<td>Ratings</td>
<td>UL 325 Recognized Component</td>
</tr>
</tbody>
</table>

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