



Frequently Asked Questions

SENSING EDGES

When installed on the bottom of a motorized door or the ends of an automated gate, Miller Edge electric sensing edge models designated MC, ME, MG, MT, and MU send a signal to motor controls when an obstruction is detected to stop and/or reverse motion when an obstruction is detected. Standard electric sensing edges can be configured to be monitored or non-monitored. Alternatively, Miller Edge offers non-monitored, non-electric sensing edges with Air-Wave or pneumatic configurations. Find the sensing edge profile that fits your application and order the configuration required by your operator.

Q: What is a Miller Edge monitored sensing edge?

A: A UL 325 recognized monitored sensing edge is an entrapment device that has been tested and approved for commercial door operators (manufactured after August 2010) and automated gate operators (manufactured after January 2016).*

CONFIGURATIONS*

MONITORED	NON-MONITORED	BUMPER
2-Wire (see Monitoring Methods below)	2-Wire Electric (not terminated)	No sensor
4-Wire	Air-Wave (switch sold separately)	
	Pneumatic (switch sold separately)	

Q: How is a sensing edge monitored?

A: UL 325 specifies that a monitored device shall monitor for the presence of the device at least once during each open and close cycle. If there is no external entrapment device, the operator can only operate by means of a constant pressure device, such as a push-button.*

Commercial door operator and gate operator manufacturers require different monitoring methods. Miller Edge offers several operator modules designed to accommodate the signal required by your operator.

Q: When performing a service call, how would I determine if the sensing edge is monitored or non-monitored?

A: All Miller Edge monitored sensing edges will have a colored band around the wire near the edge. The color will denote the termination of the edge:

MONITORING METHODS*

CONFIGURATION	MODEL	COLORED CORD BAND
2-Wire Monitored Edges		
8.2K Ohm Resistor	T1	Green
10K Ohm Resistor*	T2	Blue
Diode Capacitor*	T3	Red
Capacitor	T4	White
6.8K Ohm Resistor	T5	Orange
270K Ohm Resistor	T6	Violet
4-Wire Monitored Edge	None	None

*Most Common

*At least one independent UL 325 recognized monitored external entrapment device is required on each entrapment zone for UL Listed commercial door operators manufactured after August 29, 2010, and gate operators manufactured after January 11, 2016. Entrapment devices include sensing edges and photo eyes. Check your operator manufacturer manual for compatibility.

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Q: How do I test an electric sensing edge with my multimeter?

A: For a 2-wire electric edge:

- Connect a meter lead to the white edge wire and black edge wire, respectively. Set the meter to ohms and observe no continuity with the edge uncompressed. Press the edge at the end closest to the wire outlet and observe a low reading of normally 20 ohms or less. Note: CPT edges will generate approximately 500 ohms. Press the edge again at the opposite end of the edge. Again, observe a low reading.
 - If you read 10K ohms, the edge is a 10K (T2) monitored sensing edge.
 - If you get a reading that is not within 500 ohms of the expected value, especially one that fluctuates, inspect the edge for tears or cuts in the cover, as this reading could indicate the presence of moisture inside the edge and a replacement may be necessary.
 - If you get a reading that is less than 100 ohms, the sensing edge is either depressed or shorted.
 - If you do not get a reading while activating the edge, something has failed internally. Inspect the edge looking for damage, such as an impact mark or tear.

For a 4-wire electric edge:

- Connect one lead to either of the white edge wires and the other lead to either of the black wires. Test the sensing edge as you would test the 2-wire electric edge above.
- Check for continuity, less than 20 ohms, between white to white wires or black to black wires.

Note: Any failures of the above tests or readings that do not match will require the sensing edge to be replaced.

Q: Can I use a monitored sensing edge on a door operator manufactured prior to August 2010 or a gate operator manufactured prior to January 2016?

A: No, you will need a non-monitored sensing edge.*

Q: Can I use a non-monitored sensing edge as an entrapment protection device on a door operator manufactured after August 2010 or a gate operator manufactured after January 2016?

A: No, a non-monitored sensing edge cannot be used as an entrapment protection device, but it can be used as an additional device when another approved device is present.*

Q: I need a non-monitored sensing edge. What other options are there?

A: In addition to the 2-wire non-monitored configuration, Miller Edge Air-Wave and pneumatic sensing edges are available. These edges can be ideal solutions in cold weather, high vibration installations, and when seeking cost-effect protection. Air-Wave and pneumatic sensing edges require the addition of an air switch, which are sold separately. Most Miller Edge sensing edge models are available as Air-Wave and pneumatic.

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Q: How do I measure the length needed for ordering a sensing edge?

A: Sensing edges can be ordered in 1/4-inch increments with a manufacturing tolerance $\pm 1/4$ inch. For maximum length for each sensing edge model and configuration, please contact your sales representative.

Doors: For sectional doors, measure the section width. For rolling steel doors, measure from the tip of one guide to the tip of the opposite guide, then subtract 2-inches (ensuring the active edge does not rub against guides) to determine the length of the sensing edge.

Gates: If the edge is to be mounted vertically, measure the full height of the gate post, subtracting for post caps (protection is not required to exceed 6-feet in height). If the edge is to be mounted horizontally, measure the width of the gate, subtracting for post caps.

Q: Can a sensing edge be cut down in the field?

A: No. Miller Edge sensing edges are sealed in our factory to ensure a weatherproof product. If an edge is too long for your application, please contact one of our factories to have the edge cut down, or to have a replacement issued.

Alternatively, Miller Edge also offers CPT assemble-in-the-field sensing edges. Contact your Sales Rep to learn more.

Q: My installation has been delayed. Can I store my sensing edge folded, in the shipping container?

A: No. Sensing edges are shipped folded to save on shipping costs and are not intended to be stored in this state long-term. Edges must be stored on a flat surface in a fully extended position. The edge can suffer permanent damage if left folded and will void the manufacturer's warranty. Edge models MGO20, MGR20, and MGS20 are always shipped flat and are never folded.

Q: The floor beneath the door is uneven and the sensing edge does not seal the air gaps. What can be done?

A: Any unevenness in the floor must be compensated for by adjusting the edge retainer. Here are some simple guidelines to follow:

1. DO compensate by adjusting the position of the sensing edge mounting channel to follow the curve of the floor.
2. DON'T set your close limit to compensate for the unevenness of the floor.
3. DON'T compress a sensing edge more than 1/4-inch when fully closed. Doing so can cause internal damage to the edge over time.

When a sensing edge is over-compressed under the weight of the door, the internal contacts can become shorted and may need time to separate. Not being able to close the door right away is a sign that the edge has been over-compressed.

Miller Edge also offers Clima-Guard, a sensing edge designed to block the daylight below a door on an uneven floor.

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Q: What other ways can I customize a sensing edge?

A: In addition to customizing the switch configuration, monitoring method, and length, you can also select from standard colors and the location of the wire or hose outlet, depending on model.

Add-on options vary by model, but may include mounting channel, series connected edges, extra lead wire, attached coil cords, quick connect ends, pre-packing, vinyl loop, end flap options, Armored edge material option, and custom colors. Please contact your sales rep for pricing.

Q: How can I obtain additional support?

A: Contact your Miller Edge sales representative or select from the options below to configure and place your sensing edge order.

Sales & Technical Support:

Eastern US and Canada: 800-220-3343

Outside USA or Canada: 1-610-869-4422

Website: www.milleredge.com

Email: info@milleredge.com

Order online: myedge.milleredge.com

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