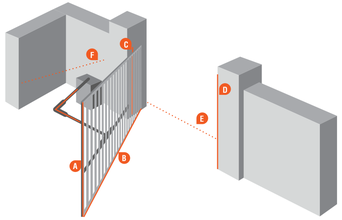
UNIVERSAL GATE SAFETY

Illustrations show common product placement locations to consider when protecting various gate types, however, each installation is unique. Be sure to consider all potential safety hazards and incorporate appropriate Miller Edge guarding into your overall gate design. Read your gate operator's manual and follow the manufacturer's requirements.

SWING GATE



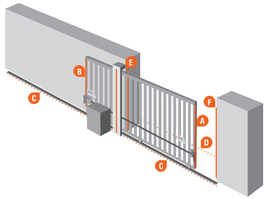
Mounting Locations

A. Leading edge
B. Bottom edge of gate
C. Post/Pivot point
D. Post
E. Exterior
F. Arm

Suggested Products

A. MGO20, MGR20, MGS20
B. ME120 (+ ME120-C5), MGO20, MGR20, MGS20
C. CPT210, ME120, MG110, MG123
D. CPT210, MG110
E. OptiGuard™, TruGuard™
F. OptiGuard™, TruGuard™

SLIDE GATE



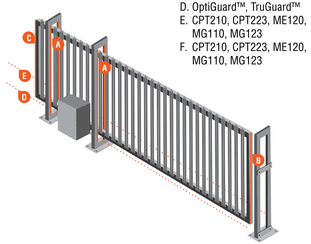
Mounting Locations

A. Leading edge
B. Trailing edge
C. Interior
D. Exterior
E. Center (draw-in) post
F. Pocket

Suggested Products

A. CPT210, CPT223, ME120, MG110, MG123
B. CPT210, CPT223, ME120, MG110, MG123
C. OptiGuard™, TruGuard™
D. OptiGuard™, TruGuard™
E. CPT210, CPT223, ME120, MG110, MG123
F. CPT210, CPT223, ME120, MG110, MG123

CANTILEVER GATE



Mounting Locations

A. Guide (draw-in) posts
B. Leading edge
C. Trailing edge
D. Interior
E. Exterior

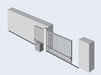
Suggested Products

A. CPT210, CPT223, ME120, MG110, MG123
B. CPT210, CPT223, ME120, MG110, MG123
C. CPT210, CPT223, ME120, MG110, MG123
D. OptiGuard™, TruGuard™
E. OptiGuard™, TruGuard™

ENTRAPMENT ZONE PROTECTION

IDENTIFY ENTRAPMENT ZONES

Per the UL 325 safety standard, entrapment protection must be present on all automated vehicular gate entrapment zones. It is the installer's responsibility to determine the number of potential areas where the risk of entrapment may exist. Effective August 1, 2018, the number of independent means of monitored entrapment protection required depends on the presence of entrapment zones and varies by gate type. In all cases, the same device cannot be used to satisfy a requirement for two independent means. **Detailed information about gate system safety and the 7th edition of UL 325 is provided by Underwriters Laboratories (www.ul.com) and DASMA (www.dasma.com).**



SLIDE/CANTILEVER
Opening: 2 devices
Closing: 2 devices

SWING
Opening: 2 devices
Closing: 2 devices

VERTICAL PIVOT
Opening: 2 devices
Closing: 2 devices

VERTICAL LIFT
Opening: 1 devices
Closing: 2 devices

BARRIER ARM
2 devices where there is a risk of entrapment

MONITOR PROTECTION DEVICES

Most UL Listed gate operators manufactured after January 12, 2016 incorporate a monitored inherent (built-in) device along with an input for a monitored external device. These external sensors are monitored for presence and function at least once during each operation cycle.

PROTECT UNIVERSAL SAFETY*

As the pioneer of gate safety, Miller Edge's gate collection includes sensing edges and photo optics, which are available in multiple monitored electrical configurations. In addition, monitored accessories offer compatibility with most operator brands to suit your safeguarding needs. Not all hazard zones are entrapment zones. Protect your customers and their property by guarding all hazards, not just entrapment zones. *Contact Miller Edge to ensure compatibility.

SENSING EDGES

WIRELESS

PHOTO OPTICS

ACCESSORIES

MillerEdge®

800-220-3343 | www.milleredge.com

202302

GATE SAFETY

MillerEdge®

MAKING YOUR WORLD
A SAFER PLACE

UNIVERSAL GATE SAFETY

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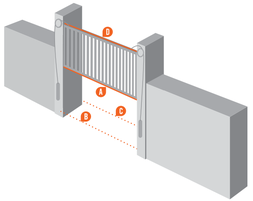
VERTICAL LIFT GATE



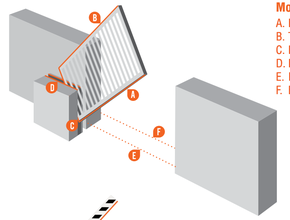
Mounting Locations

A. Leading/Bottom edge of gate
B. Interior
C. Exterior
D. Top

Suggested Products

A. CPT223, ME120, MG123
B. OptiGuard™, TruGuard™
C. OptiGuard™, TruGuard™
D. CPT223, ME120, MG123

VERTICAL PIVOT GATE



Mounting Locations

A. Bottom edge of gate
B. Top edge of gate
C. Back edge of gate
D. Draw-in area
E. Interior
F. Exterior

Suggested Products

A. CPT223, MGR20, MGS20, MG123, ME120
B. CPT223, MGR20, MGS20, MG123, ME120
C. CPT223, MGR20, MGS20, MG123, ME120
D. CPT210, CPT223, ME120, MG110, MG123
E. OptiGuard™, TruGuard™
F. OptiGuard™, TruGuard™

BARRIER ARM

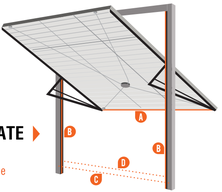
Mounting Location

A. Boom*

Suggested Products

A. CPT210, MG110

OVERHEAD GATE



Mounting Locations

A. Leading/Bottom edge
B. Sides
C. Interior
D. Exterior

Suggested Products

A. CPT223, MG123, MGO20, MGS20, ME120
B. CPT223, MG123, MGO20, MGS20, ME120
C. OptiGuard™, TruGuard™
D. OptiGuard™, TruGuard™

GATE SAFETY MATTERS

WHY COMPLY?

- **Local enforcers and agencies** adopt and enforce residential and commercial codes by state, locality, etc.
- **Residential and commercial codes** adopt standards established by nationally recognized testing labs.
- **The UL 325 safety standard**—developed by Underwriters Laboratories (UL) in partnership with gate industry leaders—requires that beginning on January 12, 2016, *at least two independent monitored entrapment protection devices* are required for each entrapment zone:
  - **Type A:** An inherent system built into the operator.
  - **Type B1:** A non-contact sensor such as a photo electric sensor.
  - **Type B2:** A contact sensor such as a sensing edge
  - **Type C:** Inherent adjustable clutch or pressure relief device built into the operator (swing gates).
  - **Type D:** A fixed 3-button device for continuous pressure activation.
- For a monitored entrapment protection device (Type B sensors) to become a **UL 325 Recognized Component** c UL us in the United States and Canada, it must undergo rigorous testing prior to being approved by UL.

A moving gate can cause serious injury or death. Be aware of potential hazards associated with automated vehicular gate systems and take the appropriate steps to reduce the risk of injury. You could be held liable.

CONFIGURATIONS

MONITORED*

Electric sensing edges and photo optics configured to be monitored by gate operator controls. UL Listed gate operators manufactured after January 12, 2016 require monitored devices for guarding entrapment areas. Miller Edge monitored sensing edge options:

- 2-wire configured for operator compatibility:
  - 10K resistor
  - 8.2K resistor

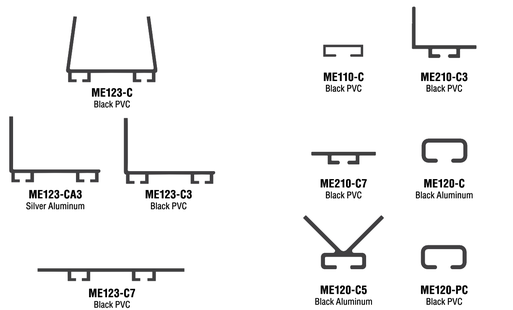
NON-MONITORED*

Electric sensing edges and photo optics intended for use with UL Listed gate operators manufactured prior to January 12, 2016. When ordering non-monitored sensing edges, select 2-wire non-monitored.

*Contact Miller Edge to ensure compatibility.

DISCLAIMER: Be sure to read your gate operator's manual and follow manufacturer's requirements. Detailed information about gate system safety and UL 325 is provided by Underwriters Laboratories (www.ul.com) and DASMA (www.dasma.com).

MOUNTING CHANNELS



SENSING EDGES

MG110

Uses: Swing, Slide, Cantilever, Vertical Pivot, Barrier Arm, Grilles

Size: 7/8 W x 3/4 H in. (23 x 18 mm)

Configurations:

Wire Outlet: Field select left or right

Color:

Kit Contents: (1) MG110 sensing edge, (1) ME110-C mounting channel, (2) end caps, (2) stainless steel screws

ME120

Uses: Swing, Slide, Cantilever, Vertical Lift, Vertical Pivot, Overhead, Grilles

Size: 1-7/16 W x 1-11/16 H in. (37 x 42 mm)

Configuration:

Wire Outlet: End, left, right

Color:

Mounting Channels: ME120-PC, ME120-C, ME120-C5

MG123

Uses: Swing, Slide, Cantilever, Vertical Lift, Vertical Pivot, Overhead, Grilles

Size: 1-7/8 W x 1-1/2 H in. (48 x 38 mm)

Configuration:

Wire Outlet: Universal, end, left, right

Color:

Mounting Channels: ME123-C, ME123-C3, ME123-CA3, ME123-C7

3-SIDED SENSING EDGES

MGO20

Uses: Swing, Overhead

Size: 1-7/16 W x 1-11/16 H in. (37 x 42 mm)

Configuration:

Wire Outlet: End, left, right

Color:

Mounting Channels: ME120-PC, ME120-C

MGR20

Uses: FOR 2" ROUND POSTS Swing, Vertical Pivot, Overhead

Size: 3-5/8 W x 2-7/8 H in. (92 x 73 mm)

Configuration:

Wire Outlet: Universal, left, right

Color:

Mounting Method: Mount on a 2-inch round post, secure tabs with screws

MGS20

Uses: FOR 2" SQUARE POSTS Swing, Vertical Pivot, Overhead

Size: 3-1/4 W x 2-11/16 H in. (83 x 68 mm)

Configuration:

Wire Outlet: Universal, left, right

Color:

Mounting Method: Mount on a 2-inch square post, secure tabs with screws

ASSEMBLE-IN-THE-FIELD SENSING EDGES

CPT210

Uses: Swing, Slide, Cantilever, Vertical Pivot, Barrier Arm

Size: 7/8 W x 1-1/8 H in. (24 x 28 mm)

Configuration:

Wire Outlet: Universal

Color:

Mounting Channels: ME210-C3, ME210-C7

CPT223

Uses: Slide, Cantilever, Vertical Lift, Vertical Pivot, Overhead

Size: 1-11/16 W x 1-5/8 H in. (42 x 41 mm)

Configuration:

Wire Outlet: Universal

Color:

Mounting Channels: ME123-C, ME123-C3, ME123-CA3, ME123-C7

WIRELESS

RBand for Gates

MONITORED WIRELESS EDGE SYSTEM

Model: RB-G-K10

Configuration:

Features:

- Bi-directional link improves immunity to RF interference
- 2-channel receiver compatible with up to 6 transmitters
- Operating range of 50 ft. nominal; 100 ft. optimal conditions

3-Channel Wireless Edge System**

NON-MONITORED

Models: MWR13 + MWT12
MWR13 + MWTA12 with low battery alarm

Configuration:

Features:

- 3-channel receiver compatible with up to 9 transmitters
- Operating range of 50 ft. nominal; 100 ft. optimal conditions

** MWRT12 & MWRTA12 Single-Channel Wireless Edge System available for installations requiring a single sensing edge.

PHOTO OPTICS

OptiGuard™

MONITORED THRU-BEAM PHOTO EYE

Model: OG-T-K10

Configuration:

Features:

- 100 ft. range
- Normally closed and 10K outputs
- Mount vertically or horizontally
- Dual purpose mounting bracket/hoods provide added protection against debris and serve as weather and sun shields
- IP67 housing protects against moisture and dust

TruGuard™

MONITORED REFLECTIVE PHOTO EYE

Model: TG-R-K10

Configuration:

Features:

- 30 ft. range
- Normally closed and 10K outputs
- Polarized beam and corner cube reflector reject false reflection and increase sunlight immunity
- Mount vertically or horizontally
- Dual purpose mounting bracket/hood and reflector hood provide added protection against debris and serve as weather and sun shields
- IP67 housing protects against moisture and dust

ACCESSORIES

Multi-Input Module

EXPANDS THE INPUTS OF A GATE OPERATOR

Model: MIM-62

Configuration:

Features:

- Connects up to 6 monitored entrapment devices to operator
- Auto-detects device interfaces
- Flexible input/output configurations
- Compatible with most gate operator brands*

Gate Edge Module

CONVERTS A 10K EDGE SIGNAL

Models:

- GEM-102: 10K to 2-wire pulsed
- GEM-103: 10K to 4-wire pulsed
- GEM-104: 10K to normally closed

Configuration:

Features:

- Converts a 10K resistive wired edge signal to the signal required by the operator
- Compatible with most gate operator brands*