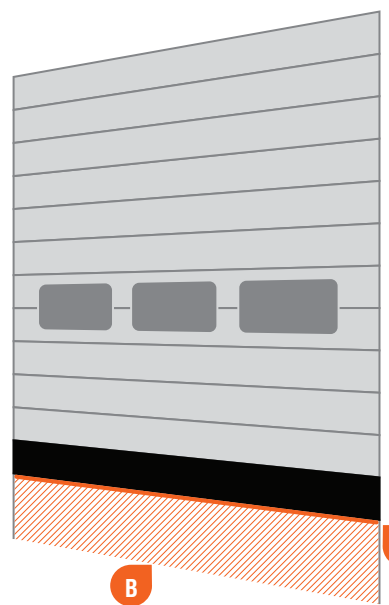


## UNIVERSAL DOOR SAFETY

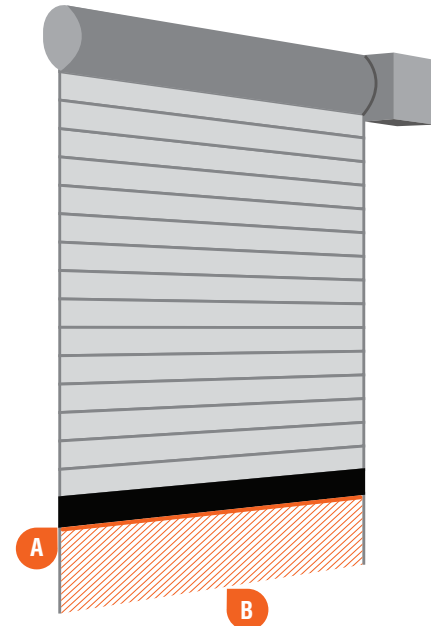
Be sure to read your gate operator's manual and follow manufacturer's requirements. More information about door system safety is provided by DASMA ([www.dasma.com](http://www.dasma.com)) and Underwriter's Laboratories ([www.ul.com](http://www.ul.com)).



### SECTIONAL DOOR ▲

#### SUGGESTED PRODUCTS:

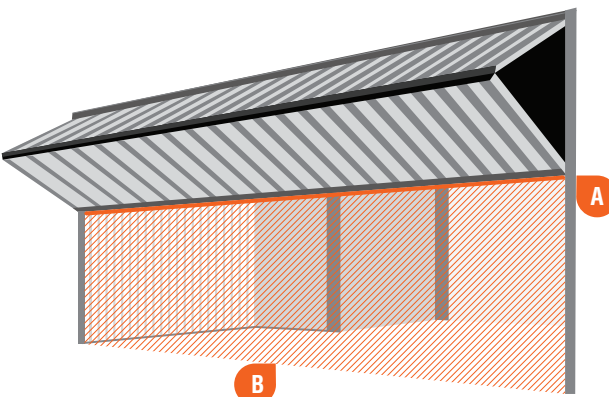
- A. Sensing edges: CPT223, ME112, ME113, ME116, ME117, ME120, ME123, MU21, MU22, Clima-GUARD™
- B. Photo optics: MLC, RLC, OG-T, TG-R



### ROLLING STEEL DOOR ▲ WITH DOUBLE ANGLE BOTTOM BARS

#### SUGGESTED PRODUCTS:

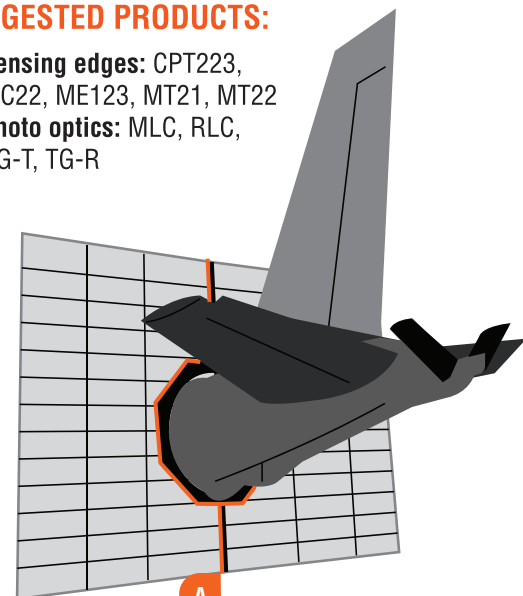
- A. Sensing edges: CPT223, MC22, ME123, MT21, MT22
- B. Photo optics: MLC, RLC, OG-T, TG-R



### BI-FOLD DOOR ▲

#### SUGGESTED PRODUCTS:

- A. Sensing edges: CPT223, ME123, MU21, MU22, MU33, MUxx
- B. Photo optics: MLC, RLC, OG-T, TG-R



### HANGAR DOOR ▲

#### SUGGESTED PRODUCTS:

- A. Sensing edges: MUxx



DOWNLOAD PDF  
Levels of Protection  
Guide for Doors

## PHOTO OPTICS



### OPTIGUARD™ MONITORED THRU-BEAM PHOTO OPTIC SYSTEM

#### Models:

- OG-T-K10: Normally closed and 10K outputs
- OG-T-PKIT: Pulsed (includes (1) SM-102)

#### Benefits:

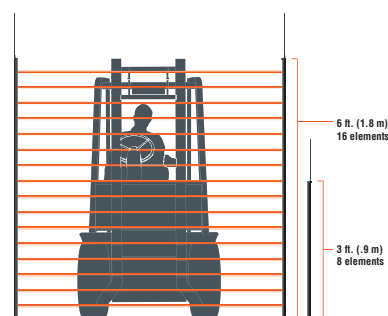
- 100 ft. range
- Mounts vertically or horizontally
- Durable hoods provide added protection
- Sealed IP67 housing protects against moisture and dust

#### Optional Accessories:

PE-CON-K10: Conduit Enclosure Kit



## PHOTO OPTICS



## LIGHT CURTAINS

### AN INVISIBLE BLANKET OF PROTECTION

#### Models:

- Monitored Light Curtain
  - MLC-K36: 3 ft., 8 elements
  - MLC-K72: 6 ft., 16 elements
- Relay Light Curtain
  - RLC-K36: 3 ft., 8 elements
  - RLC-K72: 6 ft., 16 elements

#### Benefits:

- Monitored and non-monitored to suit any environment
- 32 ft. operating range
- Simplified wiring; no external interface box
- LED indicators for easy setup and diagnostics
- Thru-beam technology minimizes false reflective signals
- IP67 housing protects against moisture and dust



### TRUGUARD™ MONITORED RETRO REFLECTIVE PHOTO OPTIC SYSTEM

#### Models:

- TG-R-K10: Normally closed and 10K outputs
- TG-R-PKIT: Pulsed (includes (1) SM-102)

#### Benefits:

- 30 ft. range
- Polarized beam and corner cube reflector reject false reflection and increase sunlight immunity
- Mounts vertically or horizontally
- Durable hoods provide added protection
- Sealed IP67 housing protects against moisture and dust

#### Optional Accessories:

PE-CON-K10: Conduit Enclosure Kit

## ACCESS CONTROL



## MWAVE™

### INTELLIGENT RADAR SENSOR FOR DOORS

Model: MWAVE

#### Benefits:

- Doppler radar technology
- Ideal for both indoor and outdoor applications
- Swivel mounting bracket for adjusting detection field
- Highly visible LED indicators
- IP67 housing protects against moisture and dust

#### Optional Accessories:

- MWAVE REMOTE universal remote control

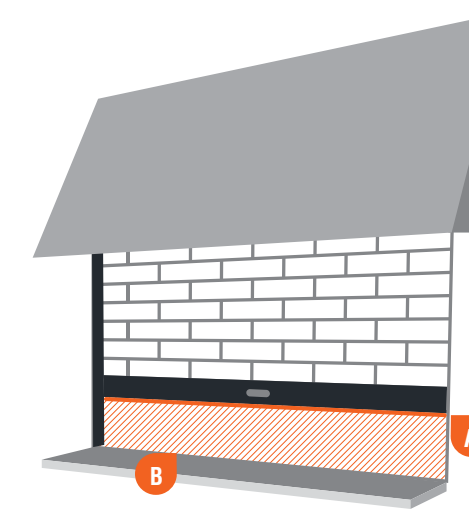
# DOOR SAFETY

## MAKING YOUR WORLD A SAFER PLACE



## ENTRAPMENT ZONE PROTECTION

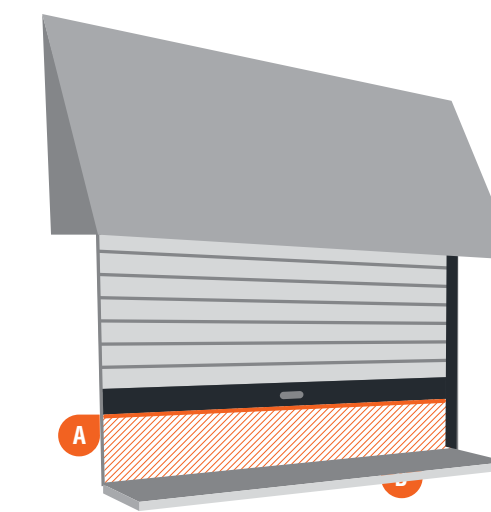
Illustrations show common product placement locations to consider when protecting entrapment zones, however each installation is unique. Be sure to consider all potential safety hazards and incorporate appropriate Miller Edge guarding into your overall door design. Not all hazard zones are entrapment zones. Protect your customers by guarding all hazards, not just entrapment zones.



### COUNTERTOP GRILLE ▲

#### SUGGESTED PRODUCTS:

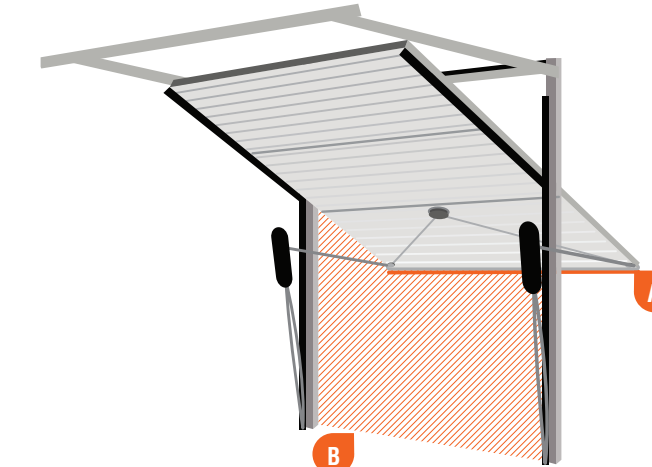
- A. Sensing edges: CPT204, CPT210, CPT223, ME110, ME111, ME112, ME113, ME120, ME123
- B. Photo optics: MLC, RLC, OG-T, TG-R



### COUNTERTOP DOOR ▲

#### SUGGESTED PRODUCTS:

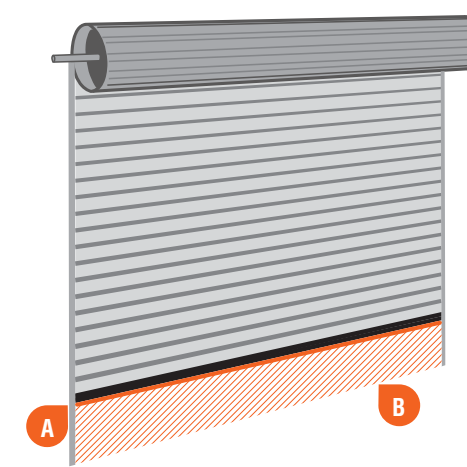
- A. Sensing edges: CPT204, CPT210, CPT223, ME110, ME111, ME112, ME113, ME120, ME123
- B. Photo optics: MLC, RLC, OG-T, TG-R



### ONE-PIECE STYLE TILT DOOR ▲ (CALIFORNIA STYLE)

#### SUGGESTED PRODUCTS:

- A. Sensing edges: CPT223, ME120, ME123
- B. Photo optics: MLC, RLC, OG-T, TG-R



### ROLLING SHUTTER DOOR ▲

#### SUGGESTED PRODUCTS:

- A. Sensing edges: CPT223, ME123, MT21, MT22
- B. Photo optics: MLC, RLC, OG-T, TG-R



DOWNLOAD PDF  
Sensing Edge  
Field Worksheet

## CONFIGURATIONS

**MONITORED ELECTRIC\***  
UL Listed door operators manufactured after August 2010 require monitored devices for guarding entrapment areas. Products include electric sensing edges, photo optics, and wireless edge systems. Sensing edge configurations include 2-wire (10K resistor, 8.2K resistor, diode capacitor) and 4-wire.

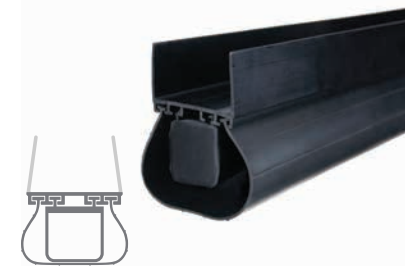
**NON-MONITORED ELECTRIC\***  
Use non-monitored devices with UL Listed door operators manufactured prior to August 2010 or as a secondary device for guarding entrapment and hazard zones. Products include non-monitored electric sensing edges, photo optics, and wireless edge systems. Sensing edge configuration: 2-wire non-monitored.

**AIR-WAVE (NON-MONITORED)\***  
Air-Wave edges are non-monitored, feature adjustable sensitivity, and are a low-cost option when a non-electric edge is preferred. Air-Wave configured edges contain a flexible hose, which is connected to an external air switch that—when compressed—sends a signal to motor controls.

**PNEUMATIC (NON-MONITORED)\***  
Pneumatic edges are non-monitored and offer a low-cost, reliable alternative to electric edges. They contain a flexible hose, which is connected to an external pneumatic switch that—when compressed—sends a signal to motor controls.

\*Contact Miller Edge to ensure compatibility.

## SENSING EDGES



**CLIMA-GUARD**

**Uses:** Sectional doors  
**Size:** 2-1/4"W x 3"H  
57 mm W x 76 mm H  
**Configuration:**   
**Wire Outlet:** End, left, right  
**Color:**   
**Mounting Channels:**  
ME112-C4, ME112-C43,  
ME112-C47

## SENSING EDGES



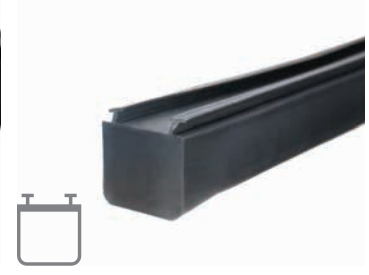
**ME110**

**Uses:** Countertop doors and grilles  
**Size:** 7/8"W x 3/4"H  
23 mm W x 18 mm H  
**Configuration:**   
**Wire Outlet:** End, left, right  
**Color:**   
**Mounting Channels:**  
ME110-C, ME110-C2,  
ME110-C3



**ME111**

**Uses:** Countertop doors and grilles  
**Size:** 7/8"W x 1-1/2"H  
22 mm W x 37 mm H  
**Configuration:**   
**Wire Outlet:** End, left, right  
**Color:**   
**Mounting Channels:**  
ME110-C, ME110-C2,  
ME110-C3



**ME112**

**Uses:** Sectional, countertop doors and grilles  
**Size:** 1-5/16"W x 1-1/2"H  
34 mm W x 38 mm H  
**Configuration:**   
**Wire Outlet:** End, left, right  
**Color:**   
**Mounting Channels:**  
ME112-C3, ME112-C7



**ME113**

**Uses:** Sectional, countertop doors and grilles  
**Size:** 1-1/2"W x 1-9/16"H  
38 mm W x 39 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting Channels:**  
ME113-C, ME113-C2,  
ME113-C3, ME113-C7

## SENSING EDGES



**ME116**

**Uses:** Sectional doors  
**Size:** 1-13/16"W x 1-1/2"H  
46 mm W x 39 mm H  
**Configuration:**   
**Wire Outlet:** Universal, end, left, right  
**Color:**   
**Mounting:**  
Slides into bottom section



**ME117**

**Uses:** Sectional doors  
**Size:** 1-7/8"W x 2"H  
48 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Universal  
**Color:**   
**Mounting Channel:**  
ME117-C7



**ME120**

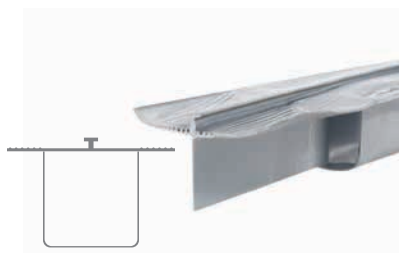
**Uses:** Sectional, tilt, countertop doors and grilles  
**Size:** 1-7/16"W x 1-15/16"H  
36 mm W x 49 mm H  
**Configuration:**   
**Wire Outlet:** End, left, right  
**Color:**   
**Mounting Channels:**  
ME120-C, ME120-PC



**ME123**

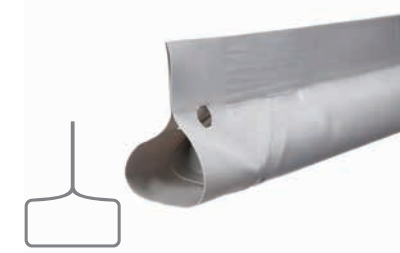
**Uses:** Sectional, rolling steel, bi-fold, tilt, countertop doors and grilles  
**Size:** 1-7/8"W x 1-1/2"H  
48 mm W x 38 mm H  
**Configuration:**   
**Wire Outlet:** Universal, end, left, right  
**Color:**   
**Mounting Channels:**  
ME123-C, ME123-C1,  
ME123-C2175, ME123-C3,  
ME123-CA3, ME123-C7

## SENSING EDGES: ROLLING DOORS



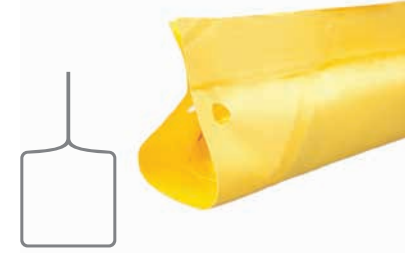
**MC22**

**Uses:** Rolling steel doors  
**Size:** 2"W x 2"H  
51 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Left, right  
**Color:**   
**Mounting:**  
Slides into extruded aluminum bottom bar



**MT21**

**Uses:** Rolling steel, rolling shutter doors  
**Size:** 1"W x 2"H  
25 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Between bottom bars



**MT22**

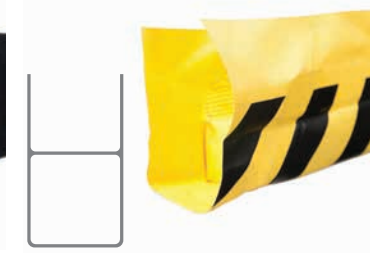
**Uses:** Rolling steel, rolling shutter doors  
**Size:** 2"W x 2"H  
51 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Between bottom bars

## SENSING EDGES: SECTIONAL & HANGAR DOORS



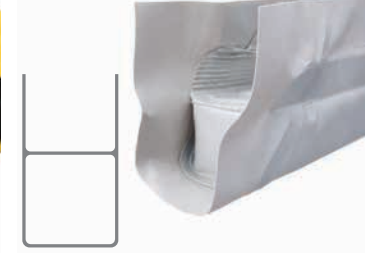
**MU21**

**Uses:** Sectional, bi-fold doors  
**Size:** 1" W x 2"H  
25 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Mounting tabs



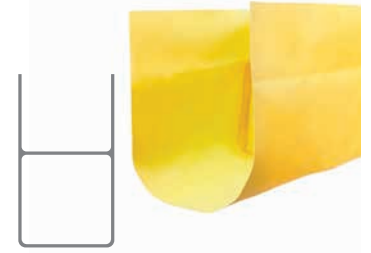
**MU22**

**Uses:** Sectional, bi-fold doors  
**Size:** 2"W x 2"H  
51 mm W x 51 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Mounting tabs



**MU33**

**Uses:** Large sectional, bi-fold doors  
**Size:** 3"W x 3"H  
76 mm W x 76 mm H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Mounting tabs



**MUxx**

**Uses:** Large sectional, bi-fold, hangar doors  
**Size:** Custom W x H  
**Configuration:**   
**Wire Outlet:** Universal, left, right  
**Color:**   
**Mounting:**  
Mounting tabs

## ASSEMBLE-IN-THE-FIELD



**CPT210**

**Uses:** Countertop doors and grilles  
**Size:** 7/8"W x 1-1/8"H  
23 mm W x 28 mm H  
**Configuration:**   
**Wire Outlet:** Universal  
**Color:**   
**Mounting Channels:**  
ME210-C3, ME210-C7



**CPT223**

**Uses:** Sectional, rolling steel, bi-fold, tilt, countertop doors and grilles  
**Size:** 1-11/16"W x 1-5/8"H  
42 mm W x 41 mm H  
**Configuration:**   
**Wire Outlet:** Universal  
**Color:**   
**Mounting Channels:**  
ME123-C, ME123-C1,  
ME123-C2175, ME123-C3,  
ME123-CA3, ME123-C7

## WEATHER SEALS



**BULB SEAL**

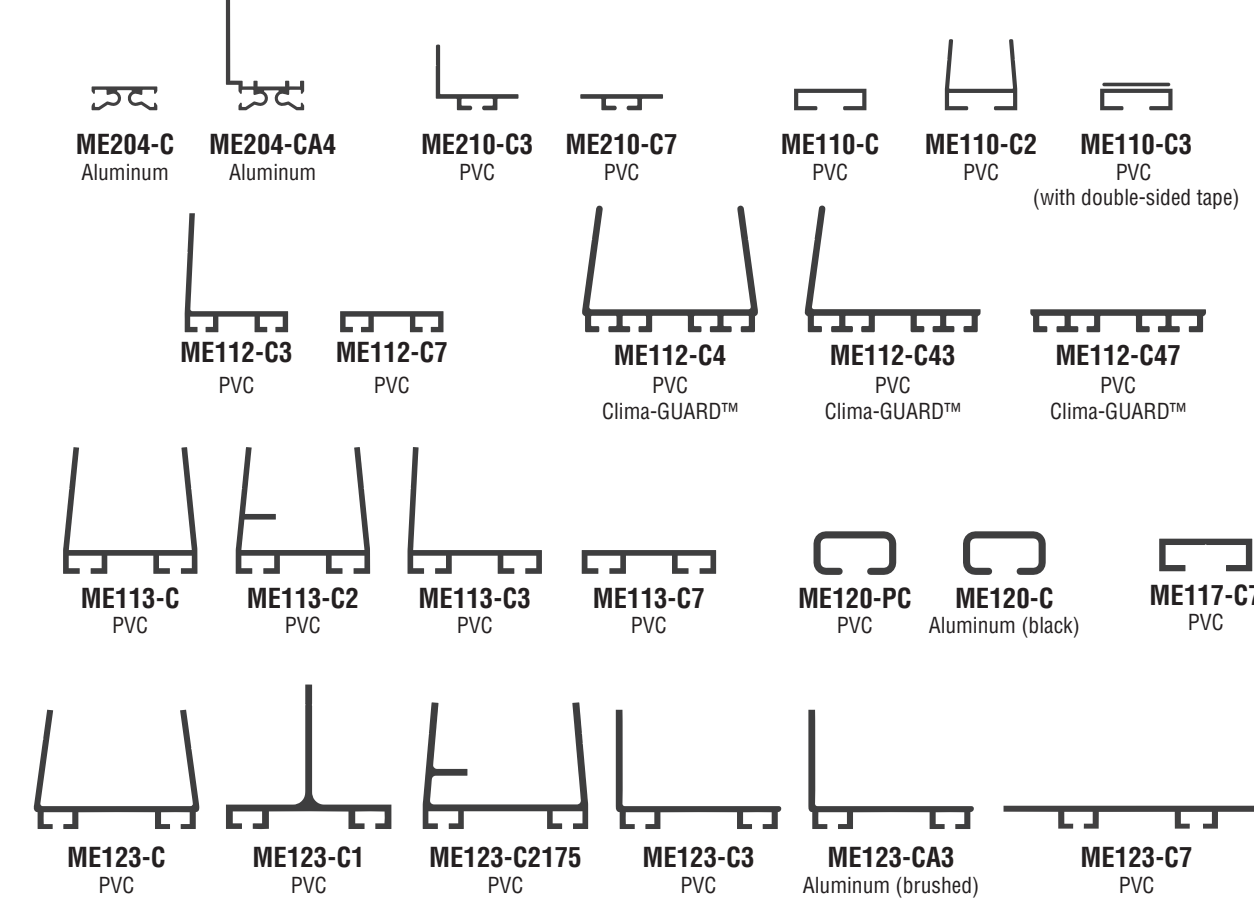
**Uses:** Weather seal for rolling steel doors  
**Color:**   
**Models:**  
BS-0101: Bulb Seal (1-1/2"H x 1-1/4"W)  
**Mounting:**  
• Between bottom section



**LOOP SEAL**

**Uses:** Weather seal for sectional doors  
**Color:**   
**Models:**  
LS-0101: 3-1/2" Loop Seal  
LS-0107: 7" Loop Seal  
**Mounting:**  
• Slides into bottom section or mounting channel

## MOUNTING CHANNELS



## WIRELESS



**RBAND for DOORS**

**MONITORED WIRELESS EDGE SYSTEM**  
**Model:** RB-P-K10C  
**Configuration:**   
**Benefits:**  
• Bi-directional link improves immunity to RF interference  
• 2-channel receiver compatible with up to 6 wireless transmitters  
• Pulsed and N.O. receiver output compatible with pre- and post-2010 systems (10K edge required)  
• Operating range of 50 ft. nominal; 100 ft. optimal conditions



**SINGLE-CHANNEL MILLER WIRELESS**

**NON-MONITORED WIRELESS EDGE SYSTEM**  
**Models:** MWR12 + MWT12  
MWR12 + MWTA12 with low battery alarm  
**Configuration:**   
**Benefits:**  
• Operating range of 50 ft. nominal; 100 ft. optimal conditions  
• Non-monitored for pre-2010 commercial door operators  
\*\* Three-Channel Miller Wireless non-monitored edge system also available. Includes: MWR13 Three-Channel Miller Wireless Receiver paired with MWRT12 and/or MWRTA12 transmitters.