

## ***SAFETY, SECURITY, & ACTIVATION SOLUTIONS***



# *Safety, Security, & Activation Solutions Since 1957*

**COMMITMENT** For over 50 years, Larco has provided quality products to meet the needs of its customers. Today, this tradition continues and is further enhanced with a broader product



offering. We have added many new items, and are proud to showcase our entire line of products with this new catalog. It represents Larco's rich history in the automatic door and industrial safety industries, and at the same time highlights some of our new offerings in the security industry. At the end of the day, it is all about Larco's commitment to its customers – and we are more committed than ever to the exciting future with our customers and industries we serve.

**QUALITY** An important part of our commitment is the dedication to quality. Every Larco product must pass a rigorous quality inspection program. Larco is ISO 9001:2000 certified,



and utilizes manufacturing quality principles such as Lean Manufacturing. While good solid processes and procedures are important to make certain quality products are shipped out the door, it is the people at Larco who make it happen. We are fortunate that Larco has some of the most experienced and talented individuals who fulfill our commitment to quality each and every day.

**SERVICE** A quality product must be backed by exceptional service, and this is where Larco shines. We commit to providing on-time-delivery of defect-free products, and are proud of our track record. With well trained and experienced people who provide great service and technical support, the entire Larco team stands ready to serve its customers.

**THANK YOU** Everyone at Larco wishes to thank you for your ongoing support. We have many long term relationships that date back decades, and we plan to further strengthen these in the decades to come. If you are a new customer, we warmly welcome you and sincerely look forward to working with you.



1902 13TH STREET NE, P.O. BOX 547 • BRAINERD, MN 56401  
TOLL FREE: (800) 523-6996 • PHONE: (218) 829-9797 FAX: (218) 829-0139 • WWW.LARCO.COM

## OUR FAMILY OF COMPANIES

Larco is part of ATEK Products Group, a division of ATEK Companies which provides proprietary products to a variety of markets. ATEK Companies, headquartered in Minneapolis, MN, is a total manufacturing solutions provider serving diverse industries that include medical, defense, communications, power sports, transportation, security and access control, and industrial safety. ATEK is family owned and operated, with over 800 employees located at seven facilities both domestically and internationally. As a part of the ATEK family, Larco benefits from the experience and knowledge found within the businesses and leverages this to benefit Larco customers.

Visit [www.larco.com](http://www.larco.com), [www.atekproducts.com](http://www.atekproducts.com), and [www.atekcompanies.com](http://www.atekcompanies.com) for further information.



## NEW WEBSITE

Visit our redesigned website where you can learn about our new and existing products. You can also find useful information such as technical bulletins and user guides in the Product Resources section, as well as get answers to frequently asked questions.

Visit [www.larco.com](http://www.larco.com) to learn more.

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**Slim Box Wall Switch**

Check out our complete line of wall switches including our unique low-profile Slim Box.

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**Sensors**

Larco has added a line of quality door sensors, designed for a variety of motion detection applications.

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## Featured Products

Larco has many new and exciting products, a number of which are featured here. From the addition of our new door Sensors and touchless U-WAV wall switch, to our unique Kiosk Mat, the Larco product offering continues to grow. Take a close look at these items as you page through our catalog, and feel free to contact us for additional information.



**Edge Guards**

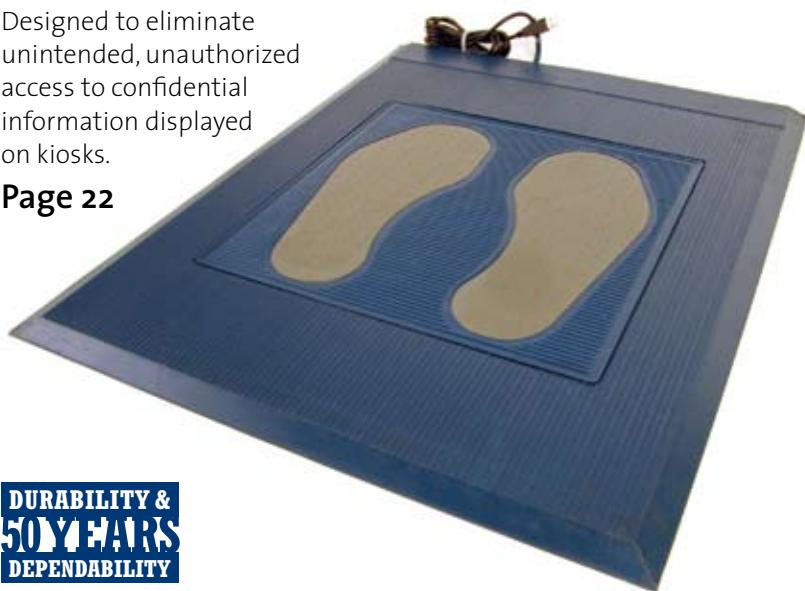
A pressure sensitive edge for a variety of applications, including machine guarding.

**Page 20**

**USB Kiosk Mat**

Designed to eliminate unintended, unauthorized access to confidential information displayed on kiosks.

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**DURABILITY &  
50 YEARS  
DEPENDABILITY**



**U-WAV™**

A touchless switch that provides a complete hygienic solution for many different applications.

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# ***AUTOMATIC DOOR PRODUCTS***

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# Automatic Door Systems

**DURABILITY &  
50 YEARS  
DEPENDABILITY**

Larco provides complete automatic door entrance and

exit systems to accommodate any automatic door configuration.

Whether your application requires a presence mat with trim, guide rails, and wall switch or a sensor and mat combination solution, Larco can provide you with a total safety solution system for your unique automatic door application.

## Applications:

- Grocery Stores
- Airports
- Hospitals
- Hotel
- Casinos

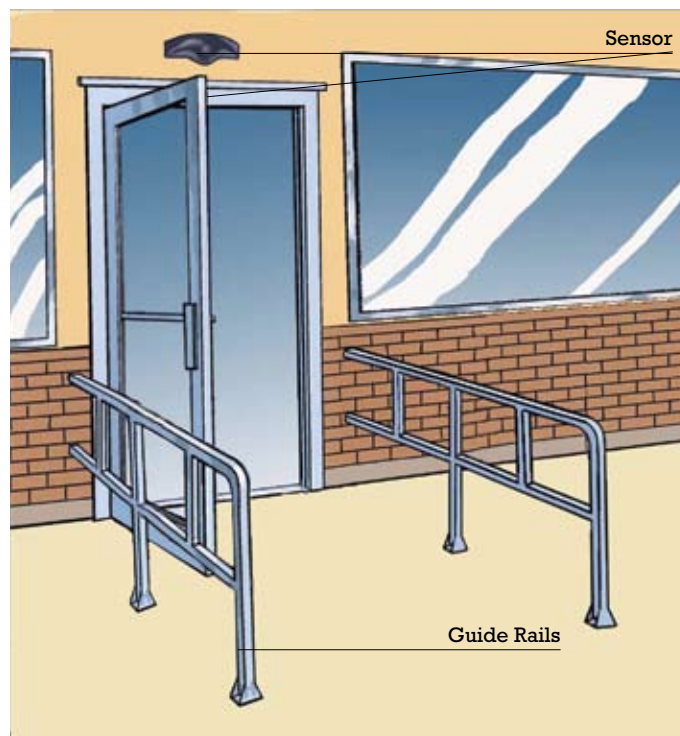
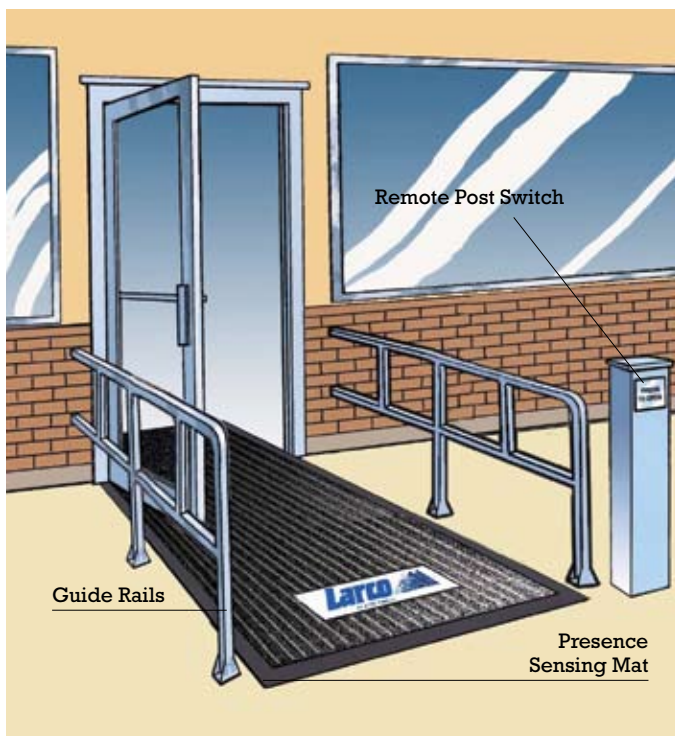


Major U.S. International Airport

## Common Applications and Components

Common automatic door applications can include presence sensing mats, trim, guide rails, and remote post switch assembly.

The use of sensors is another popular method of door activation involving one or more sensors strategically installed on and above a door opening.



# Presence-Sensing Mats

Larco's presence sensing mats offer a safe solution by providing positive control in a well-defined sensing area. Larco mats are designed to detect anyone no matter how fast they're moving or what their age or disability.

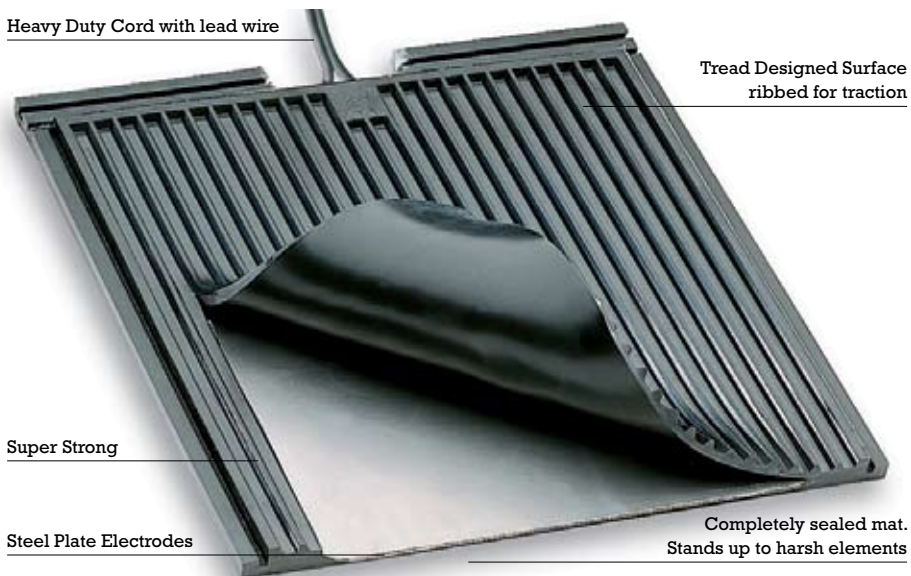
All of our products endure rigorous quality assurance testing and are designed for durability. Larco mats can withstand the toughest environments, including heavy traffic from shopping carts and forklifts.

## Product Features:

- **Water Proof**- Outer shell is molded to a heavy duty internal electrode which remains watertight
- **Durable Construction**- Larco mats are impervious to rain, sleet, snow, and ice
- **Reliability**- Larco mats heavy duty electrodes ensure reliability for more than 10 million operations
- **Safety**- Larco automatic door mats meet or exceed ANSI A156.10-2005

## QUALITY, DURABLE CONSTRUCTION:

Heavy Duty Cord with lead wire



Tread Designed Surface  
ribbed for traction

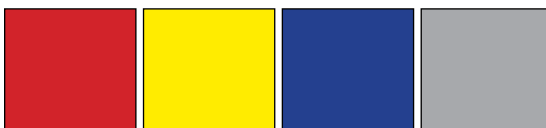
Super Strong

Steel Plate Electrodes

Completely sealed mat.  
Stands up to harsh elements

**DURABILITY &  
50 YEARS  
DEPENDABILITY**

## CUSTOM COLORS:



Red

Yellow

Blue

Grey

Custom Logos/Monograms Available



Any Color, Shape and Size is Possible



## EDGES ARE AVAILABLE IN FOUR STYLES

**Lock-Lip Edge** offers the  
largest variety of size and  
trim options



**Tapered Edge** designed  
to reduce trip hazards



**Square Edge** designed for  
recessed applications



**Beveled Edge** designed  
with fine ribs for traction



## STANDARD COLORS:



Black

Brown

## TEXTURES:



Circular

Ribbed

Durable and Completely Waterproof



## Aluminum Trim

All Larco mat trim is made from hard mill finished aluminum for durability. Designed to withstand even the harshest environments, including heavy traffic. Larco mat trims offer a durable and reliable way to install any automatic door mat, as well as other types of flooring.

- Durable construction to take punishment from wheel chairs, dollies, moving equipment, and grocery carts
- Available in stock lengths or customized packages designed to accommodate specific mat sizes and installations



Offer many styles, finishing and color options

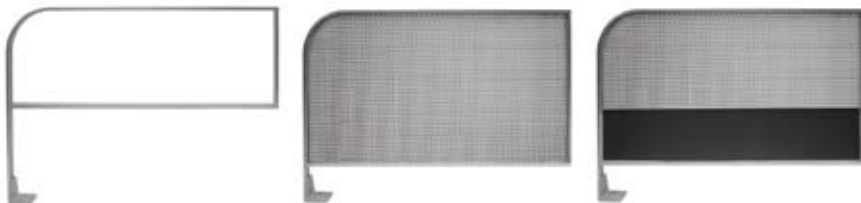


## Guide Rails & Corrals

Larco guide rails provide added protection and stability to your automatic door installation. Guide Rails help to prevent accidents by directing traffic flow and provide a point of stability for pedestrians entering and exiting your building.

- Made of anodized aluminum with standard clear or dark bronze finish
- Include heavy duty aluminum rail feet and mounting hardware
- Larco also offers non-standard rails and cart corrals upon request

Custom panels available with a variety of inserts to choose from.



## Finger Guards

Larco finger guards provide added protection for your automatic door installation. The primary purpose of a finger guard is as a protective device. It limits the ability of the door to cause injury if fingers are inadvertently placed in the area between the door and frame.



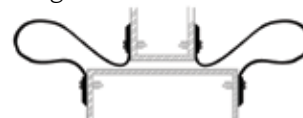
### Center Hung Applications

- Use black vinyl "D" shaped insert and a continuous perforated aluminum bar, which acts as a clamp
- Standard length is 96" tall
- One assembly is needed for each leaf



### Hinge Hung Applications

- Use black rubberized fabric to span gap between the door frame and the door
- Aluminum bars are attached to both outside edges to act as a clamp
- Standard length is 84" tall
- Two assemblies are needed for each door length





## Wall Switches

Larco offers one of the most complete lines of brass and stainless steel wall switches on the market. Designed to be attractive and durable for indoor and outdoor environments, Larco wall switches are the right choice for almost any application and are compatible with all automatic door electronics.





Full Size (6'')

**DURABILITY &  
50 YEARS  
DEPENDABILITY**

**Larco wall switches offer many benefits:**

- Standard and custom engravings available
- Easy installation with a simple 3-step process; all necessary mounting hardware is included
- No visible attachment screws, providing theft and tamper resistance
- Durable construction designed for tough environments



Jamb Size

Reduced Size (4½'')



**Remote Post Assembly**

Larco remote post assemblies can accommodate any of our wall switches. Made from a top-quality finished aluminum, they are designed to stand up to tough weather environments.

- Remote posts are available in powder coat clear and dark bronze. Black finish is also available
- The standard height for remote posts is 40"
- Accommodates many different types of access devices
- Remote posts can be combined with guide rails to provide a secure method of mounting security devices

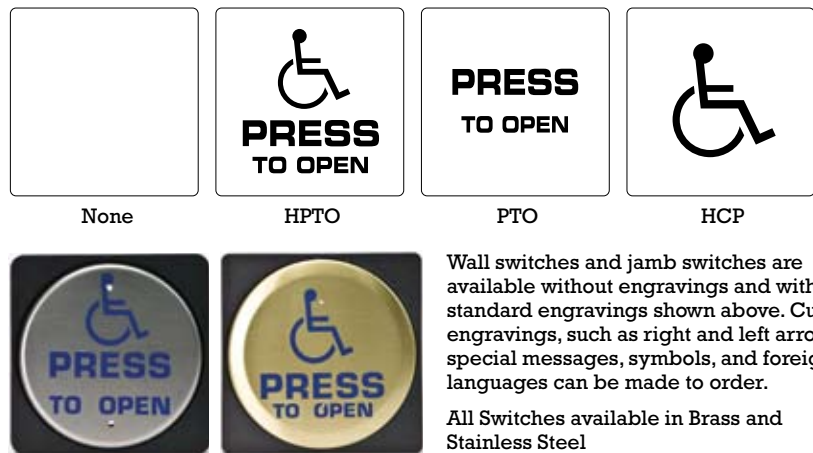




### Slim Box Wall Switch

The slim box wall switch features a sleek design with a one inch box that holds the hardware, making installation simple. The slim box can be mounted to any flat surface, mounting post, or electrical box.

- Cost effective
- Aesthetically pleasing
- Designed to meet ANSI standards
- Easy to Install



Wall switches and jamb switches are available without engravings and with the standard engravings shown above. Custom engravings, such as right and left arrows, special messages, symbols, and foreign languages can be made to order.

All Switches available in Brass and Stainless Steel

### ORDERING INFORMATION:

#### Hardwired/Stainless Steel • Full Size (6")

SHAPE	ENGRAVING	OPERATION	PART #
Square	None		6S0
	HPTO		6S1
	PTO		6S2
Round	HCP		6S3
	None		6R0
	HPTO		6R1
	PTO		6R2
	HCP		6R3

#### Hardwired/Stainless Steel • Reduced Size (4 1/4")

Square	None		4S0
	HPTO		4S1
	PTO		4S2
	HCP		4S3
Round	None		4R0
	HPTO		4R1
	PTO		4R2
	HCP		4R3
Jamb Switch	None		J00
	HPTO		J01
	PTO		J02
	HCP		J03
	None	works w/transmitter	J00TX
	HPTO	works w/transmitter	J01TX
	PTO	works w/transmitter	J02TX
	HCP	works w/transmitter	J03TX

#### Universal Box/Stainless Steel • Full Size (6")

SHAPE	ENGRAVING	OPERATION	PART #
Square	None	Hardwired	6S0U0
		433Mhz	6S0U4
	HPTO	Hardwired	6S1U0
		433Mhz	6S1U4
Round	PTO	Hardwired	6S2U0
		433Mhz	6S2U4
	HCP	Hardwired	6S3U0
		433Mhz	6S3U4
Round	None	Hardwired	6R0U0
		433Mhz	6R0U4
	HPTO	Hardwired	6R1U0
		433Mhz	6R1U4
	PTO	Hardwired	6R2U0
		433Mhz	6R2U4
	HCP	Hardwired	6R3U0
		433Mhz	6R3U4

#### Universal Box/Stainless Steel • Reduced Size (4 1/4")

Square	None	Hardwired	4S0U0
		433Mhz	4S0U4
	HPTO	Hardwired	4S1U0
		433Mhz	4S1U4
	PTO	Hardwired	4S2U0
		433Mhz	4S2U4
	HCP	Hardwired	4S3U0
		433Mhz	4S3U4

#### Universal Box/Stainless Steel • Reduced Size (4 1/4")

SHAPE	ENGRAVING	OPERATION	PART #
Round	None	Hardwired	4R0U0
		433Mhz	4R0U4
	HPTO	Hardwired	4R1U0
		433Mhz	4R1U4
	PTO	Hardwired	4R2U0
		433Mhz	4R2U4
	HCP	Hardwired	4R3U0
		433Mhz	4R3U4

#### Stainless Steel Jamb Switches with Mounting Boxes

DESCRIPTION	PART #
Jamb switch box alone without transmitter	JJ0
Jamb switch box with switch(no engraving) and no transmitter	J00J0
Jamb switch box with switch(no engraving) and 433Mhz transmitter	J00J4
Jamb switch box with switch(HPTO engraving) and no transmitter	J01J0
Jamb switch box with switch(HPTO engraving) and 433Mhz transmitter	J01J4
Jamb switch box with switch(PTO Engraving) and no transmitter	J02J0
Jamb switch box with switch(PTO Engraving) and 433Mhz transmitter	J02J4
Jamb switch box with switch(HCP Engraving) and no transmitter	J03J0
Jamb switch box with switch(HCP Engraving) and 433Mhz transmitter	J03J4



# Touchless Sensing Solution

**U-WAV™** The U-WAV is a sensor switch designed for touchless activation of automatic doors, lighting controls, or call points. Ideal for sterile environments such as operating rooms or clean rooms, the U-WAV provides a complete hygienic solution for many different applications.

Larco's U-WAV touchless switch is uniquely designed to be aesthetically pleasing, durable (made using ABS plastic), and provide reliable operation. Installation is easy, and the U-WAV's universal plate design fits most North American and European standard box sizes. CE and FCC approved.



## AVAILABLE IN 2 STYLES:



Flush Mount



Surface Mount

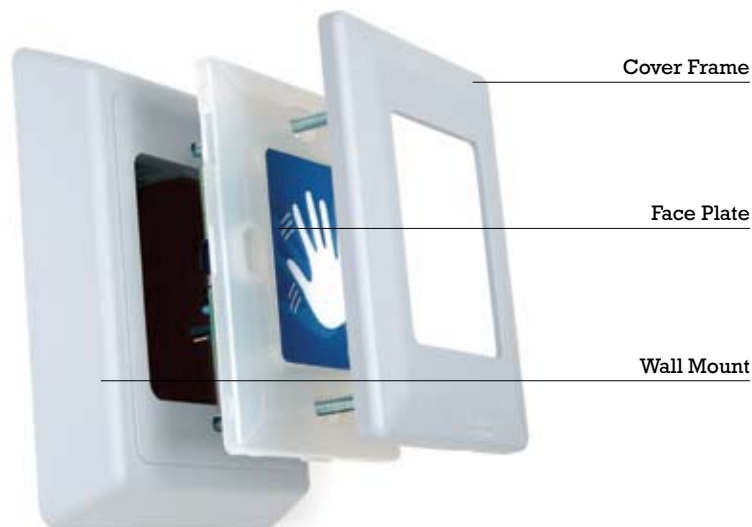
## U-WAV Applications

- Clean Rooms
- Pharmaceutical
- Rest Rooms
- Food Processing
- Restaurants
- Physicians' Offices
- Medical & Semiconductor
- Hospitals & Clinics
- Anywhere hygiene and convenience are needed

## Customizable:

- Adjustable hold time of 0.5 to 10 seconds
- Detection range of 4 to 20 inches
- Two modes of operations - Switch or Sense
- Custom colors, logos and face decals available

## EASY-TO-INSTALL 3 PIECE DESIGN:

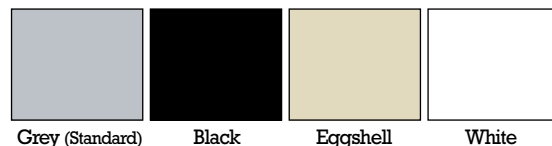


Cover Frame

Face Plate

Wall Mount

## STOCK COLORS:



Grey (Standard)

Black

Eggshell

White

## ORDERING INFORMATION:

ITEM	DESCRIPTION
336817	U-WAV TOUCHLESS SENSOR-GREY- 336817



# Sensors

Larco offers a variety of sensors to meet your industrial or pedestrian safety needs. Sensors provide dependable presence detection to any door application.

**Reflex Sensor** As one of the most versatile sensor available, the Reflex sensor is the ideal solution for many residential and commercial door types. The Reflex comes in a variety of shapes and sizes, it can be mounted vertical or horizontal, and can be recessed into a false ceiling or mounted on the side of a door.

**Topscan Sensor** Topscan delivers enhanced safety while reducing the cost of your safety package. Topscan's sensing field dimensions is a spot that is determined by a series of choices including the number of TS beams, the distance between them, and the detection range.

**Safescan Sensor** Safescan is the ideal sensor to make your sliding doors compliant with the new higher standards. Safescan features a durable curtain of active infrared technology for safe and reliable presence detection along the door and sidelight panels.

**Zonescan Sensor** Zonescan delivers enhanced safety and total flexibility for your swinging, low energy, and folding doors. Installed at the top of the header, Zonescan delivers safety while the door is open or closed.

**Profusion Sensor** Profusion is the ideal all-in-one sensing system for automatic sliding doors. Profusion integrates two sensing technologies: a microwave sensor for motion detection and a double curtain active infrared sensor or presence along the door.

**Herkules Sensor** Herkules is a microwave motion detector that has been developed specifically for use with industrial doors. It detects between people and vehicles and switches the output separately.

**RC Duo- Remote Control Duo** The RC Duo is an exclusive bidirectional remote control that provides immediate feedback from the sensor. This allows for a quick and easy set-up process and is compatible with most sensors.

\* Same external appearance, internal technology differs



Reflex



Topscan



Zonescan



Profusion & Safescan\*



Herkules



## Receivers

Larco's new ultra small receiver is the most space efficient and durable wireless automatic door control device available when combined with select Larco wall switch assemblies.

Additional features include:

- Easy installation and servicing
- Activation of 1.5 seconds up to 4 hours
- Improved signal range
- Receiver unit offers millions of code variations for increased security and eliminates dipswitch settings
- Comes equipped with a wiring harness



Ultra-small 433MHz Receiver

## Transmitters

Larco's new ultra-small transmitters utilize full size cases to increase ease of use.

- Available in discreet one, two, and four channel varieties
- Two channel key fob size transmitter ideal for pocket or key chain use available

### ORDERING INFORMATION:

#### Receivers

DESCRIPTION	PART #
Ultra-small 433MHz receiver (shown)	233804

#### Transmitters

DESCRIPTION	PART #
Ultra-small 433 MHz replacement transmitter	234475
433 MHz Single channel hand held	234465
433 MHz Dual channel hand held	234467
433 MHz Four channel hand held	234469
433 MHz Dual channel micro hand held	234518



4 1/4" tall x 2 1/4" wide



Larco's two channel key fob transmitter makes programming up to two doors easy

# ***INDUSTRIAL SAFETY PRODUCTS***

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# Industrial Safety Mat Systems

Since 1957, Larco has focused its efforts on developing and producing the most reliable and durable presence-sensing mats available. Designed to meet stringent industrial requirements, Larco safety mat systems offer a durable solution to your safe guarding needs.

**Impact Resilient** - Heavy-duty electrode assembly and durable outer shell provide extraordinary impact resilience and withstand heavy loads of as much as 3,000 psi.

**Highly Sensitive** - Larco mats have a high sensitivity threshold requiring only 3-5 lbs. for activation in normal foot traffic.

**Totally Submersible** - Larco safety mats are hermetically molded in a seamless proprietary vinyl, which eliminates any separation issues.

**Larco Industrial Safety Mat Systems have been used to successfully reduce hazards in a number of industries including:**

- Robotic Welding
- Laser Welding/Cutting
- Water Jet Machines
- Pick and Place Robots
- Plastics Molding Machines
- Assembly Machines
- Automated Material Handling
- Packaging Machinery
- Textile Machinery
- Conveyers
- Paper Converting Machinery
- CNC Punches & Tube Benders



**DURABILITY &  
50 YEARS  
DEPENDABILITY**

Primary Machine Safe Guarding

## Industrial Safe Guarding Applications

Larco Industrial safety mats provide a reliable and versatile solution to your safe guarding needs.

\*Photo Courtesy of Cincinnati Incorporated



# Mat Options

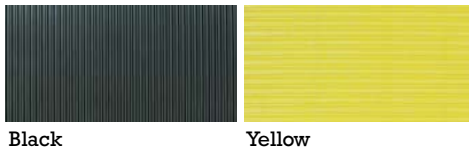
In addition to our durable presence-sensing mats, Larco also offers additional mat colors, customized logos, as well as shapes and sizes. to suit your industrial mat applications.

**Color** - Larco safety mats are available in a number of color options. The standard Larco mat colors are black and yellow. Other colors are available upon request.

**Custom Lettering and Logos** - Informational messages, such as "Caution" or "Do Not Step" or symbols can be added to your safety mat utilizing contrasting colors to provide a visual warning to personnel. Custom designed logos are available.

**Custom Sizes and Shapes** - Larco offers over 50 standard size mats. Custom sizes, notches, angles, and shapes are available providing you with unlimited options for your application needs.

## STANDARD COLORS:



Black

Yellow

## CUSTOM COLORS:



Red

Brown

Blue

Grey

## TEXTURES:



Circular

Ribbed

Pebble



**Comfort Step Mats** The comfort step mat is designed to reduce worker fatigue in machinery safeguarding applications where frequent worker presence is required.



**SureStep Step Mats** Larco SureStep mats provide added protection in industrial environments where liquids, oils, and grease make floors hazardous. The SureStep mat provides a non-skid surface to reduce the risk of slipping on surfaces where grease and oil are present.

### Custom Logos/Monograms Available



### Safety Controls Provide Reliable Performance



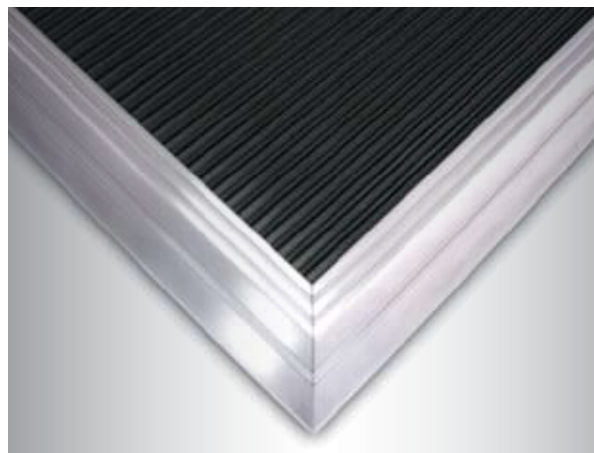
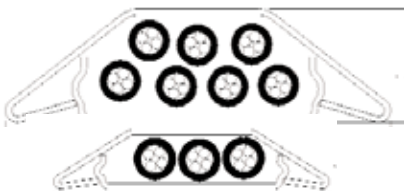
### Durable and Completely Waterproof



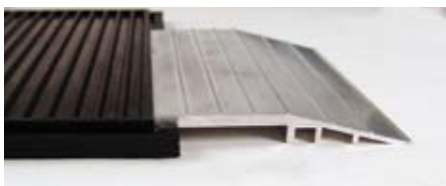
## Trim

Larco safety mat mounting extrusions are made of a hard, mill finish aluminum. Trim can be purchased in the stock lengths or in fully-machined trim kits ready for installation.

**Wire Raceways** Used to route mat wires across the floor to the connection point. Available in two sizes, which can hold either three or seven standard mat cords.



### Lock Lip Ramp Trims



PN223166

The 4-inch ramp provides more strength and a longer ramp for use in areas with heavy vehicular traffic.

### Lock Lip Edge



PN210978

The 3/4-inch Blunt Edge mounting method is used along a machine to keep debris out from under the mat.

### Active Joiner



PN230010

The Active Joiner Trim eliminates inactive areas between mats where wire passage is required.



PN219033

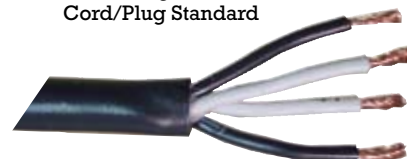
2-inch ramp works well in pedestrian traffic to eliminate a trip hazard.

## Mat Wiring

Unless otherwise specified at the time of purchase, all Larco mats are configured with a 20-foot long, single-jacketed conductor cord. We also have a molded plug available for easy wire connections. When used with the appropriate receptacle they form a watertight mechanical connection and seal.



20-foot Long, Four-wire  
Cord/Plug Standard



Redundant  
4-wire system



## Control Units

Choosing the right Larco safety mat controller is an important decision, balancing features and options required while maintaining a high level of productivity. Larco's high quality, high performance safety controls can accommodate almost any industrial safety demand.

### Zone Monitor 3000

Offers a sophisticated mix of advanced mat system monitoring and simple dependability.

- Monitors 1 to 4 safety mats
- Accommodates 3 power inputs
- Advanced Individual Mat Diagnostics
- Rugged Design
- Flexible Power Inputs and Operation Modes
- Dependable and Long Lasting
- Designed to meet UL, CE, and CUL requirements

### Zone Monitor 3008

The simple design technology of the Zone Monitor 3008 enables it to withstand the toughest industrial environments while still providing the advanced diagnostics and control reliable performance.

- Monitors 1 to 8 safety mats
- Accommodates 3 power inputs
- Able to indicate open circuits on individual mats
- Robust and dependable design
- Multiple operation modes and input voltage options to fit most plant requirements



### MAX Series Controllers

Designed to provide continuous safety system monitoring in applications where individual mats diagnostics are not necessary.

- Monitors up to 10 mats joined with a Larco junction box
- Input monitoring circuit incorporates diverse-redundant microprocessors for control reliable performance
- Selectable auto reset or manual reset
- Mounts on standard DIN rail
- High visibility status lights indicate system performance

# Edge Guards

Pressure sensitive edges are manufactured to meet the user's specification for length and cord location. When pressed, the edge guard sends a signal to the safety controller to stop or reverse operation depending on the application.

- Provides a safety solution for narrow edges
- Suits a wide variety of applications
- Easy installation
- Manufactured with durable materials
- Resistant to water, flame, and common greases and oils



EGS120 shown with aluminum mounting channel

EGS110

EGS120



# ***SPECIALTY PRODUCTS***

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# Security Products

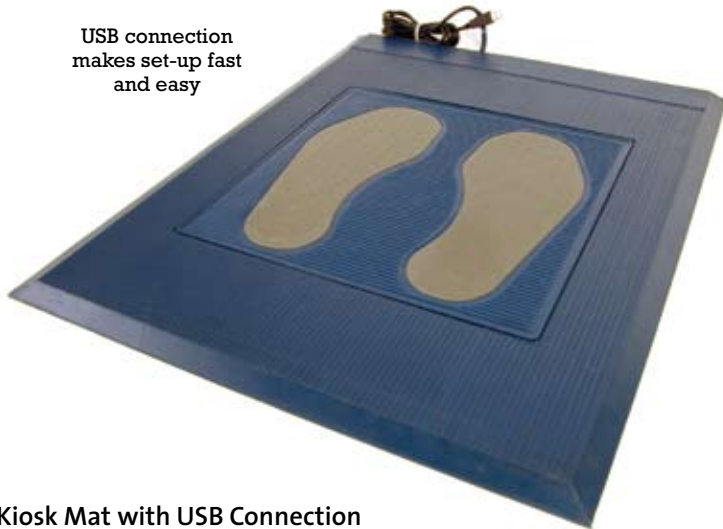
When ease of operation, customization and accuracy all figure into your needs, Larco Kiosk Security Products provide a total solution with unparalleled dependability and durability.

## Typical Installation:

- Bank Tellers & ATMs
- Human resource kiosk
- Hospitals
- Information kiosk in shopping malls, museums, airports etc.



USB connection  
makes set-up fast  
and easy



## Kiosk Mat with USB Connection

Larco's USB mat operates from a computer via the USB port. The mat sends a series of keystrokes to the computer which allows the mat to identify if a user is at the kiosk. A second set of keystrokes is sent to the computer when the user steps off the mat. This will automatically log off the user and the session will end.

- Surface finish: Fine ribbed surface (standard). Also available with pebble finish, course ribbed or sure step finish.
- Standard colors: Black, brown and grey. Additional colors are available to match your decor.
- Custom lettering, logos, shapes and sizes available
- Several mounting options available



Easy to configure, plug and play.  
No special drivers needed.

## SonicGuard Computer Security

The SonicGuard uses ultrasonic waves to detect a user's presence in a defined detection area determined by you.

For installations where mats are simply not feasible, the SonicGuard can be used to provide a complete layer of security. The entire unit measures less than two inches square, and can be easily hidden in kiosk furniture to prevent vandalism.

- Automated Locking
- Easy Installation
- Configuration is simple
- Reliable Detection Zone



# Customized Sensing Products

Larco customized sensing products are used in conjunction with security systems to control access and provide a complete security solution for all of your needs.

## Typical Installation:

- Drive Up Windows
- Vehicle Detection & Position Verification
- Cash Register Security
- Toll Booth Activation
- Car Wash Activation
- Process Signaling
- Passenger Control & Ticketing
- Hazard Avoidance
- Data Collection



## Magnetic Door Reader

The Magnetic Door Reader is designed to automatically lock a computer when a user opens the door to leave the room making it virtually impossible to allow unauthorized access to confidential information.

- Automatically Locks Computer for User
- Works With All Existing Security
- Allows Walk-Away and Walk-To Events
- Fully User Configurable
- Plug and Play, No Special Drivers Needed



## Dual Zone Mat System

Larco also manufactures Dual Zone Mat Systems with two distinct zones or areas that can be used to monitor the number of people in the security portal prior to accessing the reader or scanner or to detect when the person requesting access is in the correct location for scanning.

- Signal portal control circuitry to deactivate the scanning device
- Initiate a lock-down of the portal
- Notify security personnel of a violation
- Begin video surveillance of the portal and surrounding areas

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1902 13TH STREET NE, P.O. BOX 547  
BRAINERD, MN 56401

[WWW.LARCO.COM](http://WWW.LARCO.COM) / 800.523.6996

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