

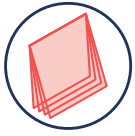
The background of the entire page is a light gray, semi-transparent aerial view of a modern office building. The building has a complex, multi-level design with large glass windows and open-plan interiors. People are visible working at desks, sitting in lounge areas, and walking through the building. A 'WELCOME' sign is visible on one of the interior walls. Outside, there is a paved area with a few people walking and a dark-colored van parked near a building entrance.

# WHERE TO FIND OUR SOLUTIONS

## OFFICE BUILDING



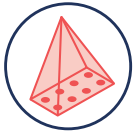
# TECHNOLOGIES



## LASER

Laser technology works according to the principle of Time-of-Flight. The sensor sends an intense light impulse in a defined direction and measures the time until the signal returns. As the speed of light is a constant value (approximately 300,000 km/s), this time is directly proportional to the distance between the sensor and the first object encountered by the light impulse.

As a result, and by sending multiple beams in multiple directions (2D or 3D), the sensor is capable of knowing the exact position of any object in its detection area at any given time.



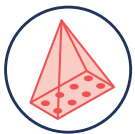
## ACTIVE INFRARED WITH BACKGROUND ANALYSIS

Active infrared with background analysis technology works with a background (e.g. a sensor shines infrared light on the floor). In this case, the sensor lights up one or more areas and analyzes the energy that returns. Detection is triggered if there is any significant difference when compared to the original picture.



## ACTIVE INFRARED WITH BACKGROUND SUPPRESSION

Active infrared with background suppression technology works on the principle of "triangulation" in which the sensor calculates the distance between the emitter and receiver. The emission angle is already known and the reflection angle becomes the key element as the distance to the object can be calculated according to the position of the reflected spot on the receiver side (a triangle can be drawn when you know one distance and two angles).



## PASSIVE INFRARED

Passive infrared technology measures the infrared light radiating from objects in its field of view. Motion or presence is detected when an infrared source with one temperature, such as a human being, passes in front of an infrared source with another temperature, such as the normal environment.



## RADAR

Radar technology, also known as microwave technology, is based on the Doppler Effect: the radar sensor continuously emits microwaves with a certain frequency in a defined area. These microwaves are reflected back to the sensor by all of the objects present in its environment.



## PIEZO

Piezo technology, also known as piezoelectric, is the process of converting mechanical pressure (pushing a button) into electrical energy. A piezo switch is paired with a field effect transistor (FET) that, when pushed, allows current to flow through the FET.



## CAPACITIVE

Capacitive technology detects close-range electrically charged objects. A small voltage is applied to a conductive surface, resulting in a uniform electrostatic detection field. When a conductor, such as the human hand, enters this field, detection occurs.



## RADIO CONTROL FREQUENCY

Radio control frequency wireless technology uses transmitters and receivers operating on specific radio frequencies. The transmitter applies a radio frequency alternating current to an antenna, which then radiates radio waves. The receiver receives the transmitted frequency and converts the information into a usable form.



## VIDEO

Video technology uses optics and light to create pictures and videos. Enhanced definition cameras capture door environment and traffic usage in full color and high quality. Cameras are used within sensors to increase security and decrease liability.





LZR®-FLATSCAN SW

7

5

UL LISTED MAGLOCKS

MAGIC SWITCH®

1

2

LPR36

## CHALLENGES TO MEET



Safety  
Hazards



Energy  
Conservation



Streamline  
Traffic



9 LZR®-I30 / LZR®-S600

FALCON EX / PHOENIX EX 10

FLY KIT 6

3 900 MHZ SERIES

4 UNIVERSAL KEYPADS

8 LZR®-H100





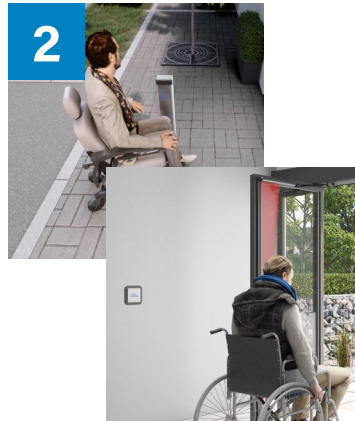
# MAXIMIZE ACCESSIBILITY IN ANY ENVIRONMENT



## MAGIC SWITCH TOUCHLESS ACTUATORS



- Touchless design reduces spread of germs and bacteria
- Stainless steel models available
- Water-resistant variants available
- A variety of adjustable detection ranges are available:
  - MS09 / MS31 / MS41 offers detection from 4 to 24 inches
  - MS21 offers detection from 0 to 4 inches

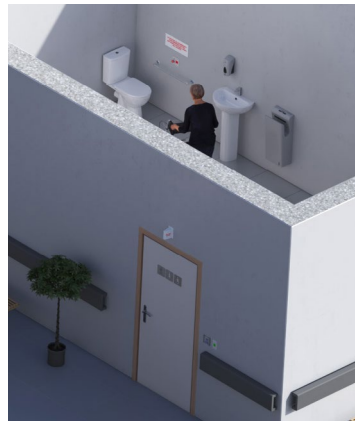


## LPR36 FULL-LENGTH, 36 INCH HIGH-LOW ACTUATOR

- Hardwired and wireless versions available
- An economical actuator for ADA building codes requiring two push plates

## PUSH PLATES STAINLESS STEEL ACTUATORS

- Available in various sizes and styles to fit almost any application, hardwired and wireless
- Water-resistant, IP65 rated versions available



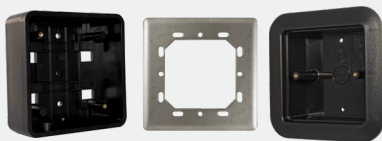
## RESTROOM KIT FOR SINGLE OCCUPANCY NORMALLY LOCKED / UNLOCKED RESTROOM

- Kit includes BR3-X logic module, Occupied Indicator, "Push to Lock" Button and Door Position Switch

## EMERGENCY ADD-ON KIT FOR SINGLE OCCUPANCY RESTROOMS

- Kit includes "assistance required" Signal, "Push for Emergency Assistance" Button + Indicator and Emergency Signage

## ACCESSORIES



### MOUNTING BOXES FLUSH & SURFACE MOUNT BOXES

- Easy battery access
- surface mount box available
- Mounting boxes and brackets
- Adapter and weather rings



### BOLLARDS EXTERIOR MOUNTING OPTION

- Choice of Bronze, Silver or Black



### JAMB CAM JAMB MOUNTED VIDEO CAMERA

- Full color, enhanced definition video with 480 x 720 (480p) resolution
- Wide angle lens for complete view of door and traffic flow



# AUTOMATE SECURITY SYSTEMS WITH RADIO CONTROLS



## 900 MHZ SERIES

### WIRELESS TRANSMITTERS AND RECEIVER

- Connects up to 500 feet (open-air transmission)
- DIP switch function settings and push button learn modes
- 1, 2, 3 and 4 button hand-held transmitters, plus an in-wall transmitter
- IP65 rated handheld transmitters available
- BEA also offers 433 MHz & 300 MHz frequencies

# SECURE VALUABLE RESOURCES & MANAGE TRAFFIC FLOW



## UNIVERSAL KEYPADS

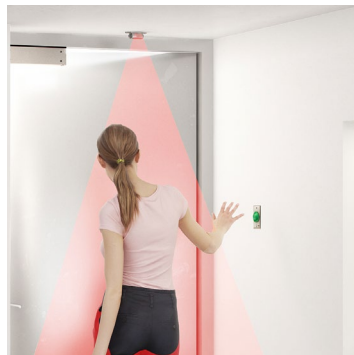
### VERSATILE ACCESS CONTROL DEVICES

- Allows for up to 1100 individual user codes
- IP66 rating ideal for outdoor or harsh environments

## KEYSWITCHES

### ROBUST STAINLESS STEEL FACEPLATE

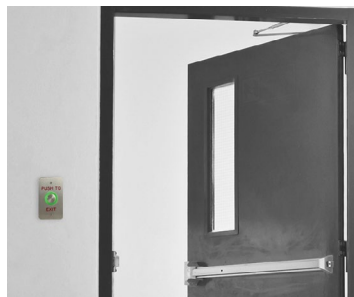
- Aluminum wall plate with tamper-resistant screws
- Available in jamb and single wall plates or double gang combo-plate
- Available with momentary or maintained contact



## PNEUMATIC BUTTONS

### WITH MECHANICAL PNEUMATIC HOLD TIME

- Exceeds NFPA safety codes with respect to security button delay time
- Available in single and jamb size plates; buttons available in 1 5/8 inch (standard) or 2 inch (large) sizes
- Available in a variety of combinations of color, text and logo upon request
- Tested to perform greater than 1 million operations

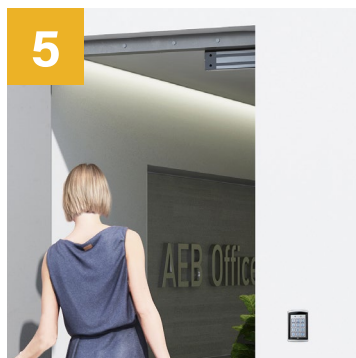


## PIEZO BUTTONS

### HEAVY DUTY, PIEZOELECTRIC PUSH BUTTON

- LED illumination can be customized to user preference
- Stainless steel faceplate and technology appropriate to withstand the rigors of harsh environments
- Vandal / tamper resistant design
- Tested to perform greater than 1 billion operations

# CONTROL AREAS WITH LIMITED ACCESS



## UL LISTED MAGLOCKS

### MAGLOCKS WITH ADJUSTABLE RELOCK TIME DELAY & LOCK STATUS SENSOR

- Adjustable zero to 90 second relock time delay
- Lock status sensor with visible LED offers either normally open (NO) or normally closed (NC) output configurations
- Input voltage of 12 / 24 VDC , must be used with UL Listed power supply



## ELECTRIC STRIKES

### RIM EXIT & UNIVERSAL CYLINDRICAL STRIKES FOR ACCESS CONTROL

- Three modular faceplates for the most common door types: hollow metal, aluminum and wood
- UL 294 & UL1034 listed Universal Cylindrical and Rim Exit Strikes
- UL tested to 250,000 cycles, factory tested to 1,000,000 cycles
- Universal Cylindrical strikes are rated to 1000 lbs static / 70 lbs dynamic (50 lbs dynamic for CUV model). The Rim Exit strikes are rated to 1500 lbs static / 70 dynamic.



## DELAYED EGRESS MAGLOCK KIT

### UL LISTED ALL-IN-ONE KIT WITH MAGLOCK, SOUNDER AND KEYSWITCH

- Double door (two single doors) can be synchronized
- Authorized egress time programmable 0 - 15 seconds
- Selectable 30 second door prop alarm
- LED color and flashes can be customized
- Monitored fire alarm input
- Delayed Egress can be triggered with pressure on the door or with a REX input (or disabled completely)
- UL 294 listed

## ACCESSORIES



### BRACKETS

#### MAGLOCK BRACKET OPTIONS

- L & Z Brackets
- Glass Door Brackets
- Vertical Spacer
- Armature Housing
- Filler Bars



### CONTROLLERS

#### PROGRAMMABLE LOGIC MODULES

- 2-relay logic module with built-in 900 MHz wireless technology
- Programmable 3-relay logic module with 13 functions for sequencing doors with other devices (i.e., lights)



### POWER SUPPLIES

#### UL LISTED

- Free standing enclosure for powering BEA sensors, locks and accessories
- Battery backup option available



# KEEP YOUR ACCESS POINTS SAFE & RELIABLE



## FLY KIT

### COMPACT REQUEST-TO-EXIT SENSOR



- Sensing field adjustment masks provide accurate detection zones (2 included)
- DIP switches for user-defined settings
- Extended Relay Time (ERT) version is available for hold times of 15 or 30 seconds
- Packages include both ceiling and surface mount adapters



## LZR®-FLATSCAN SW

### STANDALONE, DOOR MOUNTED SWING DOOR SAFETY SYSTEM



- Ideal for low energy applications
- Leading edge safety extends the detection area beyond the leading edge of the door for enhanced safety
- Fully monitored internally, capable of external monitoring
- Hub-less system offers fewer components for easier setup and installation

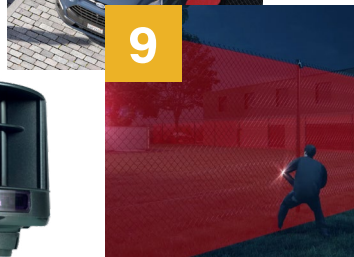


## LZR®-H100

### IDEAL FOR GATE & BARRIER APPLICATIONS



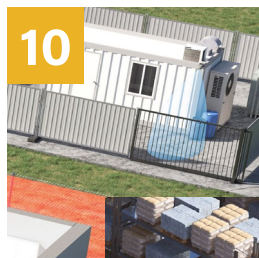
- Effective alternative to loop detectors
- Ability to detect vehicle trajectory during approach and departure



## LZR®-130 / LZR®-S600

### IDEAL FOR EXTERIOR PERIMETER DETECTION

- IP65 rated enclosure
- LZR®-130: 30 x 30 feet maximum detection range
- LZR®-S600: 82 x 82 feet maximum detection range



## FALCON EX

### IDEAL FOR REFINING & VOLATILE ENVIRONMENTS

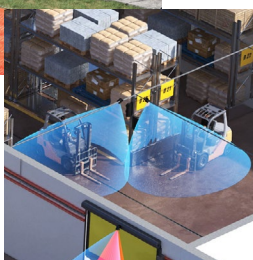


- 11 lb, explosion-proof / flame-proof housing
- Bidirectional, unidirectional approach and unidirectional depart microwave detection options

## PHOENIX EX™

### IDEAL FOR MANUFACTURING & MILITARY FACILITIES

- 11 lb, explosion-proof / flame-proof housing with integrated tamper alert switch
- Bidirectional, unidirectional approach and unidirectional depart microwave detection options





# KEEP IN TOUCH

## BEA AMERICAS

RIDC Park West  
100 Enterprise Drive  
Pittsburgh, PA 15275-1213



800 523 2462



[info-us@BEAsensors.com](mailto:info-us@BEAsensors.com)





BEAsensors.com