# PRODUCT CATALOG

## WINTER 2025 EDITION

# LZR®-FLATSCAN 3D SW

FOUR CURTAIN STAND-ALONE, DOOR-MOUNTED SAFETY SYSTEM WITH VIRTUAL PUSH BUTTON FUNCTIONALITY

READ MORE ON PAGE 29

### Three-Dimensional Field Coverage

3D detection field guaranteeing full-safety coverage of the opening area

### LASER-based Technology

Capable of ignoring dynamic ground conditions (reflective flooring, pedi-mats, wet surfaces, etc.)

### Completely Touchless

For germ-free activation, program up to two Virtual Push Buttons

## EXCEEDING ANSI 156.19


### REACTIVATION

Complete door coverage with LZR-FLATSCAN 3D SW LASER-based sensor

### PRIMARY ACTIVATION

Push plate, touchless swirch, or radio controls

### ADDITIONAL ACTIVATION

Utilize Virtual Push Buttons in addition to a knowing-act device

## BEA AMERICAS

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Exit
WAVE TO OPEN


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EMERGENCY ENTRANCE

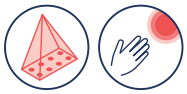
# TECHNOLOGIES

## 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.

## 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.

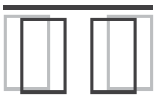
# FIND YOUR APPLICATION

## PEDESTRIAN ENTRANCE SENSORS

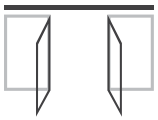
Pedestrian Entrance Sensors are designed to improve the flow of people moving in, out and through a building. These solutions maximize safety and accessibility in retail centers, airports, hospitals, educational facilities, offices and other areas with consistent pedestrian-based traffic. Security and Access Control solutions are designed to control access, provide security and streamline workflow in and around buildings. Sensing solutions found within this segment pair seamlessly with door controls and security systems to help maximize safety and security.

### DOORS & WINDOWS

LOW ENERGY DOORS

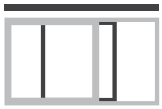


SLIDING DOORS



SWINGING DOORS

REVOLVING DOORS



AUTOMATED WINDOWS

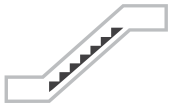
KNOWING ACT DEVICES

### SECURITY & ACCESS CONTROL

SPEED LANES AND TURNSTILES

REQUEST-TO-EXIT

ACCESS CONTROL



ESCALATORS

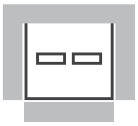
## INDUSTRIAL DOOR & GATE SENSORS

Industrial Door & Gate Sensors can be found in warehouses, distribution centers, delivery bays, docks and other areas needing to effectively manage industrial traffic. These solutions include sensors, signal lights and other devices dedicated to improving traffic flow and protecting resources. Common applications include sensors designed for the activation and safety of high performance doors.

### DOORS

HIGH PERFORMANCE DOORS

COMMERCIAL DOORS



LOADING DOCKS

### GATES & BARRIERS

GATES

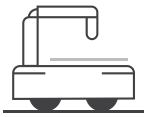
BARRIERS

# FACTORY & LOGISTICS AUTOMATION SOLUTIONS

Factory and logistic automation solutions are dedicated to applications that ensures the safety and protection of people, equipment and mobile robots in the industrial environments, including factories, warehouses, etc.

## AUTONOMOUS ROBOTS

AUTOMATED GUIDED VEHICLES



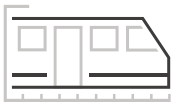
AUTONOMOUS MOBILE ROBOTS

AUTOMATIC FORKLIFT

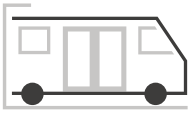
## TRAFFIC & TRANSPORT SOLUTIONS

PARKING SOLUTIONS

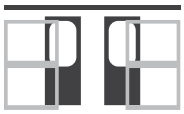
TRAFFIC & TOLL GATES



TRAIN, TRAM & SUBWAY DOORS



BUS DOORS

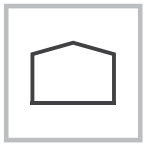


PLATFORM SCREEN DOORS

WAREHOUSING

## ASSET PROTECTION

ARTWORK PROTECTION



PERIMETER PROTECTION

# FIND YOUR SOLUTION

## INDICATORS



## PACKAGES

### ACCESS CONTROL



### LOW-ENERGY REACTIVATION



### PUSH PLATE



### SECURITY PUSH PLATE



### REQUEST-TO-EXIT



### SINGLE OCCUPANCY RESTROOM



## ACCESSORIES

# COLIBRI ONE

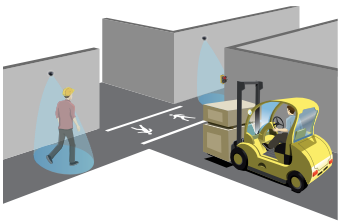
UNIDIRECTIONAL MOTION SENSOR FOR OFF-DOOR APPLICATIONS

**Customizable Settings**
Variable sensitivity adjustment provides different detection areas

**Variable Mounting**
Lateral angle adjustment for ceiling-, wall-, and low-level mount versatility

**Compact, Low Profile**
Compact size provides flexibility in mounting

**Ideal For Off-Door Applications**
Pairs with LED SIGNAL LIGHTS for warning indication applications



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| **Detection Mode** | Motion |
| **Transmitter Frequency** | 24.150 GHz |
| **Transmitter Radiated Power** | < 20 dBM EIRP |
| **Transmitter Power Density** | < 5 mW / cm² |
| **Min. Detection Speed** | 2 in/s (measured in sensor axis) |
| **Supply Voltage** | 12 – 24 VDC 30% / -10% |
| **Mains Frequency** | 50 – 60 Hz |
| **Max. Power Consumption** | < 2 W |
| **Output** | Solid-state-relay (free of potential change-over contact) |
| Max. Contact Current | 100 mA |
| Max. Contact Voltage | 35 VDC / 24 VAC |
| **Mounting Height** | 6 – 10′ |
| **Degree of Protection** | IP54 |
| **Temperature Range** | -4 – 131 °F |
| **Dimensions** | 3 ⅛″ (W) × 2 ⅔″ (H) × 2 ⅛″ (D) |
| **Tilt Angles** | 0 – 90° vertical; -30 – 30° lateral |
| **Materials** | ABS, PC |
| **Weight** | 5 oz |
| **Cable Length** | 8′ |
| **Norm Conformity** | R&TTE 1999 / 5 / EC<br>EMC 2004 / 108 / EC |

## PRODUCT SERIES

| | |
|---|---|
| **10COLIBRI1** | Motion sensor |

# EAGLE ARTEK

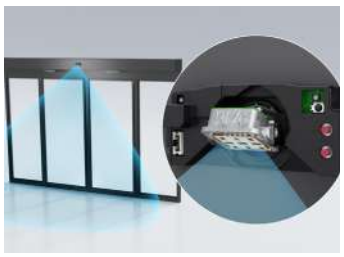
COMPACT, MOTION SENSOR FOR AUTOMATIC DOORS

### Compact and Attractive Design
Slim and compact design permits integration with all types of automatic door operators

### Energy Efficient
Immunity Filter, Field Size, and Field Shape settings work together with direction sensing capability (Detection Mode) to reduce door open time

### Easy to Use
Electronic management of the radar field shape and push-button adjustments allow for quick installation and setup

### Easy to Retrofit
Same mounting references and plug-in interface accessory make it easy to retrofit EAGLE



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave |
| **Detection Mode** | Motion |
| **Transmitter Frequency** | 24.15 GHz |
| **Transmitter Radiated Power** | < 20 dBm EIRP |
| **Transmitter Power Density** | < 5mW / cm² |
| **Max. Detection Range** | wide: 13' × 6.5'<br>narrow: 6.5' × 7' (@ 7' high) |
| **Min. Detection Speed** | 2 in/s |
| **Supply Voltage*** | 12 – 24 VAC ±10% (50 – 60 Hz)<br>12 – 24 VDC 30% / -10% |
| **Max. Power Consumption** | < 1 W |
| **Output*** | Solid-state Relay (Free of Polarity) |
| Max. Switching Voltage | 30 VAC / 42 VDC |
| Max. Switching Current | 100mA (Resistive) |
| **Mounting Height** | 6 – 13' |
| **Tilt Angles** | 0 – 90° vertical<br>-30 – 30° lateral |
| **Temperature Range** | -4 – 131 °F (-20 – 55 °C) |
| **Dimensions** | 4.72" (L) × 1.96" (H) × 1.96" (W) |
| **Material** | ABS |
| **Weight** | 120 g |
| **Cable Length** | 8' |
| **Degree of Protection** | IP54 |
| **FCC Certification** | FCC: G9B-100606<br>IC: 4680A-100606 |

## PRODUCT SERIES

| | |
|---|---|
| **10EAGLEARTEK** | Microwave motion sensor |
| **10EARA** | Rain accessory |
| **10EACA** | Ceiling accessory (white) |
| **10EACA-BLK** | Ceiling accessory (black) |
| **10EABA** | Bracket accessory |
| **35.0303** | Replacement cover (black) |
| **35.0319** | Replacement cover (white) |
| **35.0320** | Replacement cover (silver) |
| **10EARETROFIT** | Retrofit interface |
| **10REMOTE** | Universal remote control for sensor setup |

# FALCON FAMILY

MOTION SENSOR FOR INDUSTRIAL DOORS, GATES, AND WARNING INDICATION

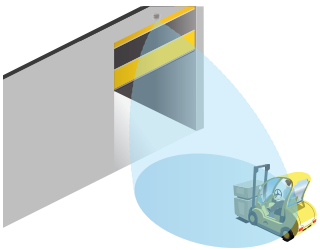
### Energy Savings
Bidirectional + unidirectional approach and unidirectional depart microwave detection options

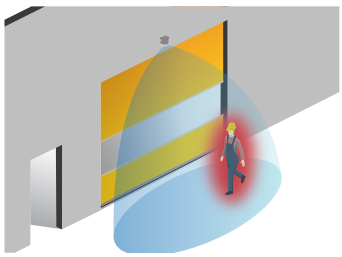
### Adjustable Detection Settings
Six modes of detection filtering for pedestrian and parallel traffic rejection

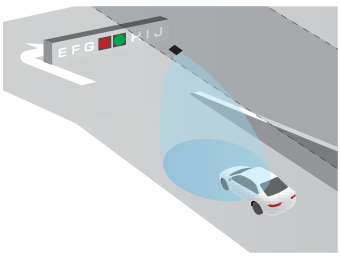
### Adjustable Angle
Tilt angle from zero to 180°

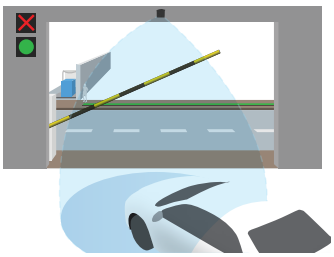
### Remote Control Adjustments
Remote control programming enables user to quickly and safely make changes from the ground

### Rated For Harsh Environments
IP65-rated enclosure









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Radiated Frequency | 24.150 GHz |
| Transmitter Radiated Frequency | < 20 dBm EIRP |
| Radiated Power Density | < 5 mW / cm² |
| **Detection Mode** | Motion |
| **Detection Zone** | |
| FALCON | 13’ × 16’ at 16’ |
| FALCON XL | 13’ × 6 ½’ at 8 ½’ |
| FALCON WIDE | 30’ × 11’ at 21’<br>Typical at 30° and field size 9 |
| **Tilt Angles** | 0 – 180° |
| **Output** | Relay (free of potential change-over contact) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC); 60 VA (AC) |
| **Minimum Detection Speed** | 2 in/s* |
| **Mains Frequency** | 50 – 60 Hz |
| **Supply Voltage** | 12 – 24 VAC; ±10%<br>12 – 24 VDC; 30% / -10% |
| **Power Consumption** | < 2 W |
| **Mounting Height** | |
| FALCON | 11 ½ – 23’ |
| FALCON XL | 6 ½ – 11 ½’ |
| FALCON WIDE | 11 ½ – 21’ |
| **Dimensions** | 3 ¾“ (W) × 4“ (H) × 5“ (L) |
| **Materials** | ABS, PC |
| **Temperature Range** | -22 – 140 °F |
| **Degree of Protection** | IP65 |
| **Norm Conformity** | EMC: 2004 / 108 / EC<br>R&TTE: 1999 / 5 / EC |

* Measured in optimal conditions

## PRODUCT SERIES

| | |
|---|---|
| **10FALCON** | Industrial motion detector (11 ½ – 23’ high mount) |
| **10FALCONW** | Industrial motion detector with wide detection fields (11 ½ – 21’ high mount) |
| **10FALCONXL** | Industrial motion detector for low mounting (6 ½ – 11 ½’ high mount) |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10WBA** | Universal mounting bracket arm |
| **10WBAMOUNT** | Universal mounting bracket plate |
| **10REMOTE** | Universal remote control for sensor setup |
| **20.5365** | FALCON harness (100’) |
| **35.1568** | FALCON harness (30’) |

# FALCON EX FAMILY

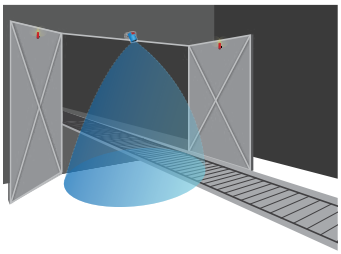
MOTION SENSOR WITH EXPLOSION-PROOF AND FLAME-PROOF HOUSING

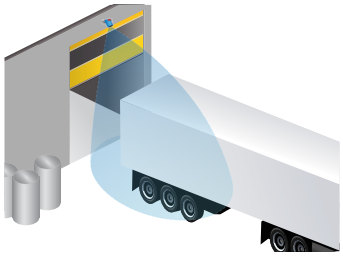
### Energy Savings
Bidirectional + unidirectional approach and unidirectional depart microwave detection options

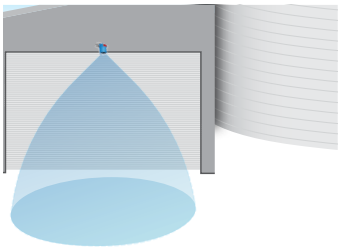
### Adjustable Detection Settings
Six modes of detection filtering for pedestrian and parallel traffic rejection

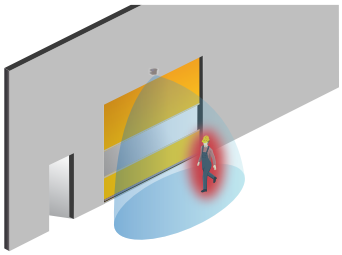
### Easy to Program
Remote control programming enables user to quickly and safely make changes from the ground

### Explosion-proof and Highly Durable
Explosion-proof and flame-proof housing weighs 11 pounds









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Radiated Frequency | 24.150 GHz |
| Transmitter Radiated Frequency | < 20 dBm EIRP |
| Radiated Power Density | < 5 mW / cm² |
| **Detection Mode** | Motion |
| **Detection Zone** | |
| FALCON EX | 13′ × 16′ at 16′ |
| FALCON EX XL | 13′ × 6½′ at 8½′ |
| FALCON EX WIDE | 30′ × 11′ at 21′ |
| | Typical at 30° and field size 9 |
| **Tilt Angles** | -90 – 30° in elevation |
| **Output** | Relay (free of potential change-over contact) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC); 60 VA (AC) |
| **Minimum Detection Speed** | 2 in/s |
| **Mains Frequency** | 50 – 60 Hz |
| **Supply Voltage** | 12 – 24 VAC; ±10% |
| | 12 – 24 VDC; 30% / -10% |
| **Maximum Power Consumption** | < 2 W |
| **Mounting Height** | |
| FALCON EX | 11 ½ – 23′ |
| FALCON EX XL | 6 ½ – 11 ½′ |
| FALCON EX WIDE | 11 ½ – 21′ |
| **Dimensions** | |
| Housing and Bracket | 5 ½″ (L) × 7 ½″ (W) × 9″ (H) |
| **Electrical Access** | |
| NPT Pipe Thread | ¾″ |
| **Weight** | 10 lbs |
| **Cable Length** | See User's Guide for reference |
| **Materials** | Copper-free Aluminum, Aluminum |
| **Temperature Range** | -22 – 140 °F |
| **Housing Certification*** | See User's Guide |
| **Norm Conformity** | EMC: 2004 / 108 / EC |
| | R&TTE: 1999 / 5 / EC |

* Adalet / Scott Fetzer Co., UL Listing #E81696

## PRODUCT SERIES

| | |
|---|---|
| **10FALCONEX100** | Industrial motion detector with 100′ harness (11 ½ – 23′ high mount) |
| **10FALCONEXW100** | Industrial motion detector with wide detection fields and 100′ harness (11 ½ – 21′ high mount) |
| **10FALCONEXXL100** | Industrial motion detector for low mounting with 100′ harness (6 ½ – 11 ½′ high mount) |
| **10INDBRACKET** | Industrial mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |
| **20.5365** | FALCON harness (100′) |
| **35.1568** | FALCON harness (30′) |

# PHOENIX EX™ FAMILY

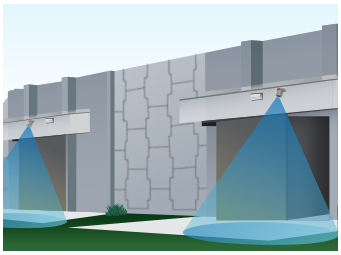
MOTION SENSOR WITH EXPLOSION-PROOF AND
FLAME-PROOF HOUSING FOR INTRUSION PROTECTION

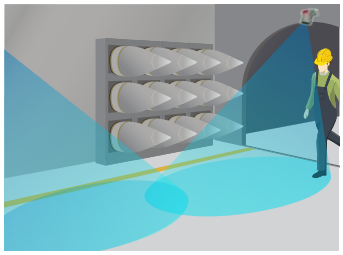
### Energy Savings
Bidirectional + unidirectional approach and unidirectional depart microwave detection options

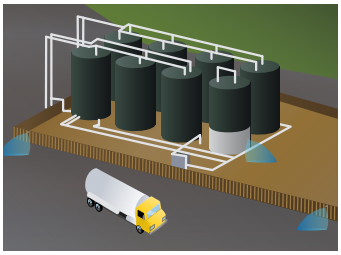
### Tamper Proof
Integrated, tamper alert switch and end-of-line resistors

### Certified Housing
Explosion-proof and flame-proof housing, weighs 10 pounds

### Customizable Detection Angle
Tilt adjustment angle: -90 to 30° in elevation







## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Transmitter Frequency | 24.150 GHz |
| Transmitter Radiated Power | < 20 dBm EIRP |
| Transmitter Power Density | < 5 mW / cm² |
| **Detection Mode** | Motion |
| **Output*** | Relay (free of potential change-over contact) |
| Maximum Contact Voltage | 42 VAC/VDC |
| Maximum Contact Current | 1 A (resistive) |
| Maximum Switching Power | 30 W (DC); 60 VA (AC) |
| **Anti-Tamper Feature** | |
| PHOENIX EX | 1) product anti-tamper (magnetic switch within cover, alerts when cover is unscrewed)<br>2) application-based anti-tamper (tamper alert via end-of-line resistor) |
| PHOENIX EX-IT | Tamper alert via output |
| **Minimum Detection Speed** | 2 in/s* |
| **Supply Voltage** | 12 – 24 VAC; ±10%<br>12 – 24 VDC; 30% / -10% |
| **Mains Frequency** | 50 – 60 Hz |
| **Maximum Power Consumption** | < 2 W |
| **Electrical Access** | ¾" |
| **Cable Length** | 30' or 100' (default), diameter ¼" max |
| **Detection Zone** | |
| PHOENIX EX | 13' × 16' at 16' |
| PHOENIX EX XL | 13' × 16 ½' at 8 ½' |
| PHOENIX EX WIDE | 30' × 11' at 21'<br>Typical at 30° and field size 9 |
| **Mounting Height** | |
| PHOENIX EX | 11 ½ – 23' |
| PHOENIX EX XL | 6 ½ – 11 ½' |
| PHOENIX EX WIDE | 11 ½ – 21' |
| **Dimensions** | |
| Housing and Bracket | 5 ½" (H) × 7 ½" (W) × 9" (L) |
| **Weight** | 10 lbs |
| **Temperature Range** | -22 – 140 °F |
| **Housing Certification*** ** | See User's Guide |
| **Norm Conformity** | EMC: 2004 / 108 / EC<br>R&TTE: 1999 / 5 / EC |

## PRODUCT SERIES

| | |
|---|---|
| **10PHOENIXEX100** | Industrial motion detector with 100' harness (11 ½ – 23' high mount) |
| **10PHOENIXEXXL100** | Industrial motion detector for low mounting with 100' harness (6 ½ – 11 ½' high mount) |
| **10PHOENIXEXW100** | Industrial motion detector with wide detection fields and 100' harness (11 ½ – 21' high mount) |
| **10PHOENIXEX-IT100** | Industrial motion detector with 100' harness (11 ½ – 23' high mount) |
| **10PHOENIXEXXL-IT100** | Industrial motion detector for low mounting with 100' harness (6 ½ – 11 ½' high mount) |
| **10PHOENIXEXW-IT100** | Industrial motion detector with wide detection fields and 100' harness (11 ½ – 21' high mount) |
| **10REMOTE** | Universal remote control for sensor setup |

*Contact your BEA Sales Representative for PHOENIX EX™ ordering information*

* Measured in optimal conditions
** Output ratings may vary depending on optional end-of-line resistor values
*** Adalet / Scott Fetzer Co., UL Listing #E81696

# SPARROW

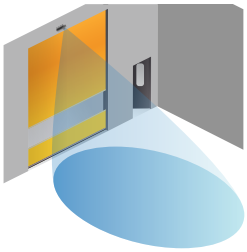
VARIABLE MOUNT, INDUSTRIAL MOTION SENSOR

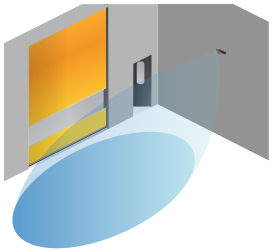
### Flexible Mounting
Mounting height from 6 ½ feet to 20 feet

### Adjustable For Optimal Detection
Ten sensor-sensitivity settings can be applied to optimize detection

### Weather Resistant
IP64-rated enclosure for industrial and harsh environments

### Customizable Settings
Immunity settings can be adjusted to reduce unwanted detections caused by rain, snow, and header vibrations






## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Transmitter Frequency | 24.150 GHz |
| Transmitter Radiated Power | < 20 dBm EIRP |
| Transmitter Power Density | < 5 mW / cm² |
| **Detection Mode** | Motion |
| **Tilt Angle** | 0 – 90° vertical;<br>-120 – 120° lateral |
| **Output** | Relay (free of potential change-over contact) |
| Max. Contact Voltage | 42 VAC – 60 VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Minimum Detection Speed** | 2 in/s (measured in the sensor axis) |
| **Frequency** | 50 – 60 Hz |
| **Supply Voltage** | 12 – 24 VAC ±10%<br>12 – 24 VDC; 30% / -10% |
| **Maximum Power Consumption** | < 2 W |
| **Mounting Height** | 6 ½ – 20' |
| **Dimensions** | 5 ½" (L) × 2 ¼" (H) × 2 ⅕" (W) |
| **Material** | ABS |
| **Color** | Black |
| **Weight** | 5.8 oz |
| **Cable Length** | 30' |
| **Temperature Range** | -22 – 140 °F |
| **Degree of Protection** | IP64 |
| **Norm Conformity** | R&TTE 1999 / 5 / EC<br>EMC 2004 / 108 / EC |

## PRODUCT SERIES

| | |
|---|---|
| **10SPARROW** | Variable-mount motion sensor |
| **10REMOTE** | Universal remote control for sensor setup |
| **10INDBRACKET** | Industrial mounting bracket |

# BODYGUARD-T

OVERHEAD PRESENCE SENSOR FOR AUTOMATIC DOORS

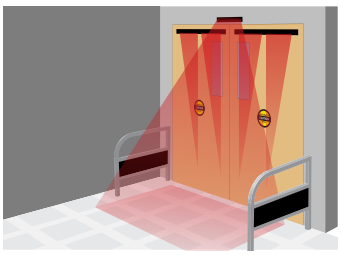
### Overhead Presence Sensor
Versatile sensor can be used on single swing, simultaneous pair, dual egress, and folding doors when coupled with an interface / lockout device

### Tailor For Application Needs
Adjustable tilt angle from zero to 10°

### Visible Indication
Visible LED indicates connection between sensor and door control

### Customized Detection
Separate pattern width, depth, and sensitivity for open- and closed-door states provide maximum flexibility

### Standards Compliant
Fully monitored internally; capable of external monitoring



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared |
| **Detection Mode** | Presence |
| **Installation Height (variable)** | 9′ 0″ maximum (recommended: 6′ 6″ – 8′ 0″) |
| **Mounting Angles** | |
| BODYGUARD Only | 5°, 10° (factory default setting: 5°) |
| With BODYMOUNT | 0°, 5°, 10° |
| **Power Supply** | 12 – 24 VAC/VDC ±10% |
| **Frequency** | 50 – 60 Hz |
| **Output** | |
| Max. Contact Voltage | 60 VDC / 125 VAC |
| Max. Contact Current | 1 A |
| Max. Power Supply | 30 W (DC), 60 VA (AC) |
| **Relay Hold Time** | 0.5 – 9 s |
| **Operating Temperature** | -22 – 140 °F |
| **Immunity** | Immune to electrical and radio frequency interference |
| **Cable** | 4′ |
| **Weight** | 1 lb 11 oz |
| **Dimensions** | 12″ (W) × 2″ (H) × 2″ (D) |
| **Materials** | Aluminum, ABS |
| **Housing** | Black anodized aluminum |

## PRODUCT SERIES

| | |
|---|---|
| **10BODYGUARDT** | Header-mounted, safety sensor |
| **10BODYMNT** | Spacer for BODYGUARD-T |
| **10BGQD** | Quick-disconnect cable for BODYGUARD-T (78″) |
| **10CAPKIT** | (1) left / (1) right end cap and mounting screws |
| **10HORTONSSHARN** | BODYGUARD-T / SUPERSCAN-T relay harness for use with Horton Control |
| **10LO21** | Lock-out modules<br>*see page 55 for more information* |
| **10REMOTE** | Universal remote control for sensor setup |
| **10URC** | Universal rain cover for BODYGUARD-T |
| **15.0075** | Harness for LO21 and LO21P |
| **20.2015** | BODYGUARD-T light pipe and cover for light pipe |
| **30.0345** | 7-position, female pin connector |
| **41.3879** | Adjustable mounting clips for PCB |
| **70.0207** | BODYGUARD-T lens cut to 4 ⅞″ |

# FLY KIT

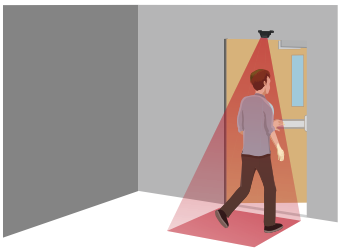
COMPACT, PASSIVE INFRARED REQUEST-TO-EXIT SENSOR

### Precise Infrared Detection
Sensing field adjustment masks provide accurate detection zones (two included)

### Customizable
DIP switches for user-defined settings

### Adjustable Access Settings
Extended Relay Time (ERT) version is available for hold times of 15 or 30 seconds

### Low-Profile Design
Compact, aesthetically pleasing design; packages include both ceiling- and surface-mount adapters



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Passive infrared with microprocessor |
| **Mounting Height** | |
| Recommended | 6 ½ – 8′ (max. 10') |
| **Mounting Angles** | 0 – 180° |
| **Power Supply** | 12 – 24 VAC ±10% 50/60 Hz<br>12 – 24 VDC -10% / 30% |
| **Current Consumption** | < 10 mA (20 mA if the relay output is activated) |
| **Contact Rating** | 1 A / 75 VDC or 50 VAC potential free contact<br>NO / NC |
| **Optical Characteristics** | Passive infrared with four elements<br>15 Fresnel lenses with full independent masking possibilities |
| **Warm-up Time** | 10 s |
| **Response Time** | 200 ms (max) |
| **Relay Hold Time** | |
| Standard Fly | 0.5 or 2 s |
| Fly Extended Relay Time | 15 or 30 s |
| **Operating Temperature** | -22 – 140 °F (-30 – 55 °C) |
| **Cable** | 9′ 4-conductor cable with 5-pin connector |
| **Weight** | 1.4 oz (40 g) |
| **Sensor Dimensions** | 4″ (W) × 1 ⅘″ (H) × 1″ (D) |
| **Housing Color** | Black |

## PRODUCT SERIES

| | |
|---|---|
| **10FLYKITB** | (1) Passive infrared detector for request-to-exit applications (black)<br>(1) Surface adapter (black)<br>(1) Flush mounted ceiling adapter (black) |
| **10FLYKITBERT** | (1) Passive infrared detector with extended relay time (black)<br>(1) Surface adapter (black)<br>(1) Flush mounted ceiling adapter (black) |
| **70.0011** | 22 gauge 4-conductor cable<br>*sold by the foot* |

# FOCUS FAMILY

FOCUSED, ACTIVE INFRARED PRESENCE SENSORS

### Low-Profile Detection

Low profile, recessed mount enables FOCUS 2 and SMART FOCUS to protect pedestrians from contact with the moving door

### Monitoring Capable

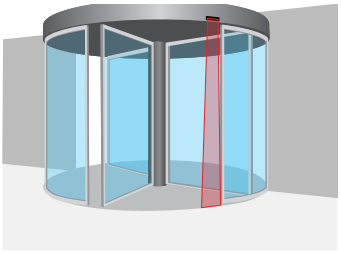
SMART FOCUS is fully monitored (not FOCUS or FOCUS 2)

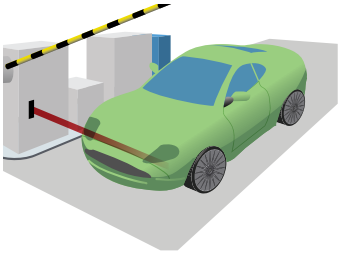
### Perfect For Activation Of Small Windows and Pass-Thru

Ideal for drive-thru and pass-thru applications

### Ideal for Gates and Barriers

Horizontal mount for use in gate and barrier applications





## TECHNICAL SPECIFICATIONS

### 10FOCUS and 10FOCUS2

| | |
|---|---|
| **Technology** | Focused, active infrared |
| **Detection Mode** | Presence |
| **Power Supply** | 24 VAC/VDC ±10% |
| **Current Consumption** | 60 mA (on); 30 mA (off) |
| **Output Interface; Relay** | Relay; max. contact rating is 1 A at 30 V (resistive) |
| **Detection Range** | 0 – 8 ⅓' |
| **Distance Adjustment** | 2 – 8', rotating cam with linear adjustment |
| **Detection Time** | < 50ms |
| **Detection Signal Duration** | Infinite presence detection |
| **LED Activity** | |
| Green | No detection |
| **Operating Temperature Range** | -30 – 140 °F |
| **Connection to controller** | 5-conductor cable |
| **Relay Output** | NO or NC |

### 10SMARTFOCUS

| | |
|---|---|
| **Technology** | Focused, active infrared |
| **Detection Mode** | Presence detection by distance measurement |
| **Detection Field** | 1 ¹⁹⁄₅₀" × 2 ¹⁹⁄₂₅" at 7 ¼' mounting height |
| **Light Indicator** | |
| Red | ON during detection |
| Orange | Flashes 1x after power on |
| **Response Time** | 64 ms |
| **Mounting Height** | 2 – 10' |
| **Supply Voltage** | 12 – 24 VAC/VDC -5% / 10% |
| **Mains Frequency** | 50 – 60 Hz |
| **Max. Current Consumption** | 120 mA at 24 VAC / 80 mA at 24 VDC |
| **Standard Output** | Relay (free of potential contact) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Monitoring Input** | 1 optocoupler (free of potential contact) |
| Max. Contact Voltage | 30 V |
| Voltage Threshold | High state: > 10 V Low State: < 1 V |
| **Hold Time** | 0.5 s |
| **Reflectivity** | min. 10% at IR-wavelength of 850 nm |
| **Temperature Range** | -13 – 131 °F (-25 – 55 °C)<br>0 – 95% rel. humidity, non-condensing |
| **Degree of Protection** | IP53 |
| **Dimensions** | 5 ¾" (L) × 1 ⅗" (H) × 2" (D) |
| **Length of Main Cable** | 8' |
| **Norm Conformity** | IEC 61000-6-2; IEC 61000-6-3<br>ISO 13849-1 Performance Level «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) |

## PRODUCT SERIES

| | |
|---|---|
| **10FOCUS** | Distance-measuring, active infrared presence sensor (surface-mount) |
| **10FOCUS2** | Distance-measuring, active infrared presence sensor (recessed-mount) |
| **10SMARTFOCUS** | Distance-measuring, active infrared presence sensor (recessed-mount); adapts to environment by the push of a button |
| **10SMARTFOCUSSMA** | Surface-mount adapter for SMART FOCUS sensor |
| **15.0118** | FOCUS 2 harness (240") |
| **70.0068** | FOCUS harness (48") |
| **35.1128** | 6-conductor cable with socket for SMART FOCUS |
| **70.0138** | Lens extrusion, ordered by inch (9" needed for 10FOCUS lens replacement) |

# IS40P

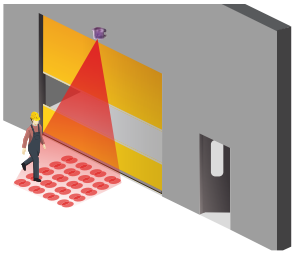
PRESENCE SENSOR WITH VIRTUAL LOOP FUNCTIONALITY

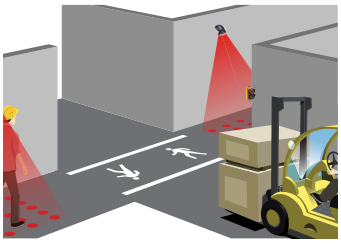
### Adjustable Learn Time
Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment

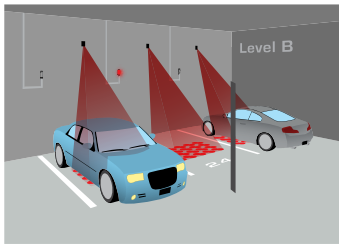
### Reduce False Detections
Six modes of detection filtering are available for microwave immunity, as well as pedestrian and parallel traffic rejection

### Programmable Via Remote
Remote control programming enables user to quickly and safely make changes from the ground (sold separately)

### Easy to Program
Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light, sun, rain, and snow








## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared |
| **Detection Mode** | Presence |
| **Mains Frequency** | 50 – 60 Hz |
| **Power Consumption** | < 3.5 W |
| **Output**<br>Max. Contact Voltage<br>Max. Contact Current<br>Max. Switching Power | 2 relays (free of potential change-over contact)<br>42 VAC/VDC<br>1 A (resistive)<br>30 W (DC) / 48 VA (AC) |
| **Supply Voltage** | 12 – 24 VAC; ±10%<br>12 – 24 VDC; 10% / -3% |
| **Temperature Range** | -22 – 140 °F |
| **Tilt Angle** | 15 – 45° |
| **Transmitter Frequency / Wavelength** | 875 nm |
| **Transmitter Power Density** | < 250 mW / m² |
| **Detection Field** | 10′ × 10′ at max. mounting height of 16′ (emitting spots)* |
| **Output Hold Time** | 0.5 s |
| **Min. Detection Speed** | 0 in/s to activate detection |
| **Reaction Time** | 250 ms |
| **Mounting Height** | 8 – 16′ |
| **Humidity** | 0 – 95% non-condensing |
| **Weight** | 14 oz |
| **Dimensions** | 3 ⅘" (W) × 4" (H) × 5" (D) |
| **Materials** | ABS, PC |
| **Cable Length** | 32′ |
| **Degree of Protection** | IP65 |
| **Norm Conformity** | EMC: 2004 / 108 / EC<br>R&TTE: 1999 / 5 / EC |

* Zone detected by SPOTFINDER (i.e. slightly larger than actual detection field)

## PRODUCT SERIES

| | |
|---|---|
| **10IS40P** | Industrial sensor utilizing active infrared presence detection |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10WBA** | Universal mounting bracket arm |
| **10WBAMOUNT** | Universal mounting bracket plate |
| **10REMOTE** | Universal remote control for sensor setup |
| **10SPOTFINDER** | Active infrared spotfinder |
| **35.1566** | 8-pin conductor cable (30′) |

# IXIO-ST

PRESENCE SENSOR FOR AUTOMATIC, SLIDING DOORS

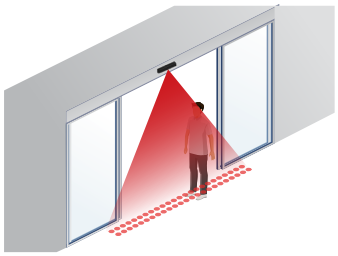
### Precise Presence Detection
Two 24-spot, high-density infrared, safety curtains providing precise presence detection

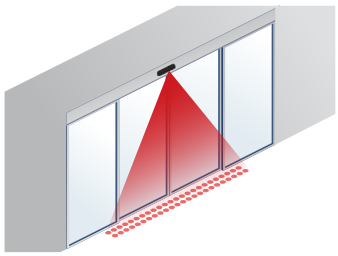
### Easily Adjustable
Four visible, red, alignment spots are projected on the ground to assist in precise IR curtain adjustment

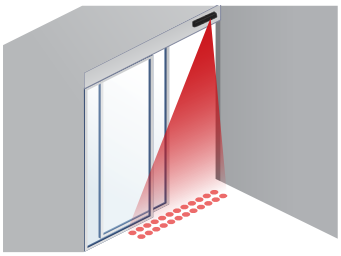
### Ease of Setup
Intelligent programming and troubleshooting via a menu-driven LCD

### Intelligent Solution
On-board microprocessor optimizes data analysis, monitors sensor performance, and enables system integration

### Standards Compliant
Fully monitored internally, capable of external monitoring







## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Detection Mode** | Presence<br>typical response time: < 200 ms (max: 500 ms) |
| **Technology** | Active infrared with background analysis<br>Spot: 2" × 2" (typ)<br>Number of spots: max. 24 per curtain<br>Number of curtains: 2 |
| **Mounting Height** | 6 ½ – 11 ½'<br>local regulations may impact acceptable mounting height (pedestrian applications only) |
| **Sensor Temperature Range** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing<br><br>LCD screen is operational from 14 – 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control. |
| **Output** | |
| Relay 1 | Electromechanical relay (potential and polarity free)<br>Max. contact current: 1 A<br>Max. contact voltage: 30 VAC<br>Adjustable hold time: 0.5 – 9 s |
| Relay 2 | Solid-state relay (potential and polarity free)<br>Max. contact current: 100 mA<br>Max. contact voltage: 42 VDC / 30 VAC |
| **Test / Monitoring Input** | Sensitivity:<br>Low: < 1 V<br>High: > 10 V (max. 30 V)<br>Response time on test request: typical < 5 ms |
| **Supply Voltage** | 12 – 24 VAC ±10%; 12 – 30 VDC ±10%<br>(to be operated from SELV compatible power supplies only) |
| **Power Consumption** | < 2.5 W |
| **Noise** | < 70 dB |
| **Compliance** | ISO 13849 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) |

## PRODUCT SERIES

| | |
|---|---|
| **10IXIOST** | Active infrared presence sensor for sliding doors |
| **10ICA** | IXIO ceiling accessory |
| **10IMB** | IXIO bracket accessory |
| **10URA** | Universal rain accessory |
| **10CDA** | IXIO curved door accessory |
| **10IXIOSPACER** | IXIO spacer (black) |
| **35.1286** | IXIO replacement cover (black) |
| **35.1302** | IXIO replacement cover (white) |
| **35.1303** | IXIO replacement cover (silver) |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **20.5359** | Wire harness (30') |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |

# IXIO-ST INDUSTRIAL

PRESENCE SENSOR FOR SMALL, INTERIOR, INDUSTRIAL DOORS

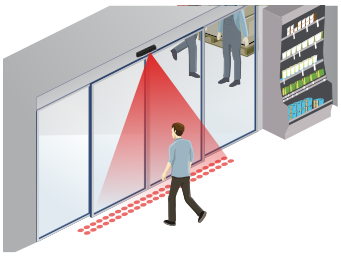
### Precise Presence Detection
Two 24-spot, high-density infrared, safety curtains providing precise presence detection

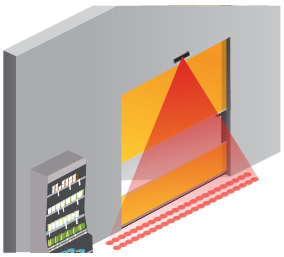
### Easily Adjustable
Four visible, red, alignment spots are projected on the ground to assist in precise IR curtain adjustment

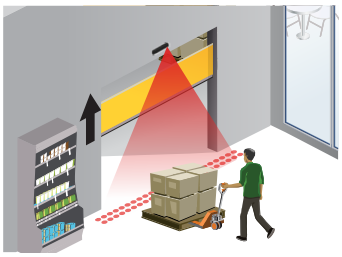
### Ease of Setup
Intelligent programming and troubleshooting via a menu-driven LCD

### Intelligent Solution
On-board microprocessor optimizes data analysis, monitors sensor performance, and enables system integration

### Standards Compliant
Fully monitored internally, capable of external monitoring







## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Detection Mode** | Presence<br>typical response time: < 200 ms (max: 500 ms) |
| **Technology** | Active infrared with background analysis<br>Spot: 2" × 2" (typ)<br>Number of spots: max. 24 per curtain<br>Number of curtains: 2 |
| **Mounting Height** | 6'6" – 11'6"<br>local regulations may impact acceptable mounting height (pedestrian applications only) |
| **Sensor Temperature Range*** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing<br><br>LCD screen is operational from 14 – 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control. |
| **Output** | |
| Relay 1 | Electromechanical relay (potential and polarity free)<br>Max. contact current: 1 A<br>Max. contact voltage: 30 VAC<br>Adjustable hold time: 0.5 – 9 s |
| Relay 2 | Solid-state relay (potential and polarity free)<br>Max. contact current: 100 mA<br>Max. contact voltage: 42 VDC / 30 VAC |
| **Test / Monitoring Input** | Sensitivity:<br>Low: < 1 V<br>High: > 10 V (max. 30 V)<br>Response time on test request: typical < 5 ms |
| **Supply Voltage** | 12 – 24 VAC ±10%; 12 – 30 VDC ±10%<br>(to be operated from SELV compatible power supplies only) |
| **Power Consumption** | < 2.5 W |
| **Noise** | < 70 dB |
| **Degree of Protection** | IP54 |
| **Compliance** | ISO 13849 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) |

## PRODUCT SERIES

| | |
|---|---|
| **10IXIOSTINDUS** | Active infrared presence sensor for sliding doors |
| **10ICA** | IXIO ceiling accessory |
| **10IMB** | IXIO bracket accessory |
| **10URA** | Universal rain accessory |
| **10CDA** | IXIO curved door accessory |
| **10IXIOSPACER** | IXIO spacer (black) |
| **35.1286** | IXIO replacement cover (black) |
| **35.1302** | IXIO replacement cover (white) |
| **35.1303** | IXIO replacement cover (silver) |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **20.5359** | Wire harness (30') |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |

# LZR®-FLATSCAN U950/U952

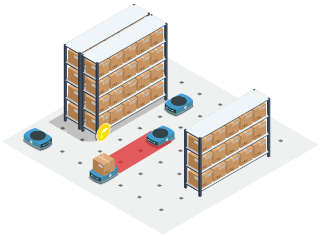
COMPACT, SINGLE CURTAIN, LASER SCANNER FOR
RAW DATA APPLICATIONS

**Background Independent**
Background or substrate has limited effect on measurements

**LASER-Based Measurements**
Measurement range is up to 8 meters (26 feet)

**Uni-Directional or Bi-Directional Standard**
RS485 bus communication (bi-directional)

**Superior Object Recognition**
No external illumination of target object necessary as compared to camera systems



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, time-of-flight measurement |
| **Measurement range** | max. 26'3" (8 m)<br>13' (4m) @ 2% remission factor<br>26'3" (8m) @ 8% remission factor |
| **Number of planes** | 1 |
| **Number of points/plane*** | max. 400 pts |
| **Angular resolution*** | min. 0.18° |
| **Angular coverage*** | max. 108° |
| **Response time** | measurements are refreshed every:<br>10.75 ms @ angular resolution ≥ 0.74°<br>43 ms @ angular resolution < 0.74° |
| **Scanning rate** | 93 scans/sec. @ angular resolution ≥ 0.74°<br>23.25 scans/sec. @ angular resolution < 0.74° |
| **Emission characteristics** | IR LASER: Wavelength 905 nm; max. output pulse power 25 W; Class 1 |
| **Measurement error** | ± 1 3/16" @ 13' (±30mm @ 4m)<br>± 2 3/4" @ 26'3" (±70mm @ 8m) |
| **Repeatability** | ± 3/16" @ 13' (±5mm @ 4m)<br>± 25/64" @ 26'3" (±10mm @ 8m) |
| **Serial communication** | see LZR®-FLATSCAN U Protocol (available for download on our website) |
| Type | asynchronous |
| Interface | RS 485 |
| Communication mode | full-duplex |
| Transmission speed | max. 921,600 bit/sec (configurable) |
| Topology | point to point |
| Symbol coding | 1 start bit, 1 stop bit, no parity bit |
| Type | 8 bits |
| File type | little endian, LSB first |
| Byte order | 1 tri-colored LED: sensor/communication status |
| **Supply voltage** | 12 – 24 VDC ±15% |
| **Power consumption** | < 2 W |
| **Peak current at power-on** | 0.8 A (max. 20 ms @ 24 V) |
| **Cable length** | 8'2-½" (2.5m) |
| **Connector** | DF11-6DS-2C |

| | |
|---|---|
| **Dimensions (U950 only)** | 5 ½" (L) × 3 ⅓" (H) × 1" (D)<br>[142mm (L) × 85mm (H) × 23mm (D)]<br>mounting bracket + ¼" (7mm) |
| **Material - Color (U950 only)** | PC/ASA - Black |
| **Tilt angles (U950 only)** | -2 – 6° (with mounting base)<br>2 – 10° (without mounting base) |
| **Protection degree (U950 only)** | IP54 [IEC 60529] |
| **Temperature range** | powered: -22 – 140 °F (-30 – 60 °C)<br>unpowered: 14 – 140 °F (-10 – 60 °C) |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Compliance** | 2014/30/EU; 2011/65/EU; IEC/EN 60825-1 Laser safety; IEC/EN 61000-6-2; IEC/EN 61000-6-3 EMC |

* These parameters can be configured via the RS 485 communication interface. For more information on the existing options, see LZR®-FLATSCAN U Protocol.

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCANU950LB** | LASER scanner for raw data applications (left) |
| **10LZRFLATSCANU950RB** | LASER scanner for raw data applications (right) |
| **10LZRFLATSCANU952** | LASER scanner without housing for raw data applications |

# LZR®-FLATSCAN A

COMPACT, LASER SCANNER FOR FACTORY & LOGISTICS APPLICATIONS

### Versatile Sensor Orientation
Left or right, horizontal or vertical sensor mounting allows for convenient sensor installation based on application needs

### Compact Design
Low-profile solution (3.5 inch height) reduces risk of wear and tear in vehicle applications

### Robust Construction
Metal enclosure and IP66 rating protects sensor in harsh environments

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER sensor, Time-of-Flight measurement |
| **Detection Mode** | Presence |
| **Max. Detection Range** | max. 18' × 18' (13' ⅛' @ 5% reflectivity) |
| **Opening Angle** | 90° |
| **Tilt Angles** | ±3° (with bracket) |
| **Emission Characteristics** | wavelength 905nm; max. output pulse power 25W (CLASS 1)<br>wavelength 635nm; max. output CW power 0.95mW (CLASS 2) visible spot |
| **Angular Resolution** | 0.23° (400 spots within 90°) |
| **LEDs** | 1 tri-colored LED: detection / output status |
| **Supply Voltage*** | 12 – 24 VDC ±15% |
| **Power Consumption** | ≤ 2. W, peak current: 1A |
| **Response Time** | max. 50ms (+ output activation delay) |
| **Output** | 1 opto (galvanic isolation - polarity free) |
| Max. Switching Voltage | 42 VAC/VDC |
| Max. Switching Current | 100mA |
| | 1 relay (free of potential contact) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 1A (resistive) |
| Max. Switching Power | 30W DC / 60 VAC |
| **Dimensions** | 5" (L) × 3 ½" (H) x 2" (D) (without bracket) |
| **Color** | Black |
| **Protection Degree** | IP66 (IEC 60529) |
| **Temperature Range (when powered)** | -22 – 140 °F (-30 – 60 °C) |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Compliance** | IEC 60825-1, IEC 60950-1, IEC 61000-6-2, IEC 610006-3, IEC 60529:2001 |

* If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCAN-A** | LZR-FLATSCAN A sensor |
| **10FSSMB*** | LZR-FLATSCAN S/A bracket |
| **10REMOTE**** | BEA Universal Remote Control |
| **10PSMDR2024** | DIN rail power supply, 100 – 240 VAC / 24 VDC |
| **10PSST242** | Plug-in power supply |

* Required for installation (sold separately)
** Required for installation and adjustment (sold separately)

# LZR®-FLATSCAN S

COMPACT, SINGLE-CURTAIN, LASER SCANNER FOR DOOR, GATE, AND BARRIER APPLICATIONS

### Inductive Loop Alternative
Virtual presence loop ideal for applications where cutting ground for loops is prohibited, impossible, or expensive

### Versatile Sensor Orientation
Left or right, horizontal or vertical sensor mounting allows for convenient sensor installation based on application needs

### Robust Construction
Metal enclosure and IP66 rating protects sensor in harsh environments

### Compact Design
Low-profile solution reduces risk of wear and tear in vehicle applications

### Reduce Unwanted Detections
Fog filter and additional immunity settings allow for field adjustments to mitigate environmental interferences

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER sensor, Time-of-Flight measurement |
| **Detection Mode** | Presence |
| **Max. Detection Range** | max. 18' × 18' (13' ⅛' @ 5% reflectivity) |
| **Opening Angle** | 90° |
| **Tilt Angles** | ±3° (with bracket) |
| **Emission Characteristics** | wavelength 905nm; max. output pulse power 25W (CLASS 1)<br>wavelength 635nm; max. output CW power 0.95mW (CLASS 2) visible spot |
| **Angular Resolution** | 0.23° (400 spots within 90°) |
| **LEDs** | 1 tri-colored LED: detection / output status |
| **Supply Voltage*** | 12 – 24 VDC ±15% |
| **Power Consumption** | ≤ 2. W, peak current: 1A |
| **Response Time** | max. 50ms (+ output activation delay) |
| **Output** | 1 opto (galvanic isolation - polarity free) |
| Max. Switching Voltage | 42 VAC/VDC |
| Max. Switching Current | 100mA |
| | 1 relay (free of potential contact) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 1A (resistive) |
| Max. Switching Power | 30W DC / 60 VAC |
| **Dimensions** | 5" (L) × 3 ½" (H) x 2" (D) (without bracket) |
| **Color** | Black |
| **Protection Degree** | IP66 (IEC 60529) |
| **Temperature Range (when powered)** | -22 – 140 °F (-30 – 60 °C) |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Compliance** | IEC 60825-1, IEC 60950-1, IEC 61000-6-2, IEC 610006-3, IEC 60529:2001 |

* If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCAN-S** | LZR-FLATSCAN S sensor |
| **10FSSMB*** | LZR-FLATSCAN S/A bracket |
| **10REMOTE**** | BEA Universal Remote Control |
| **10PSMDR2024** | DIN rail power supply, 100 – 240 VAC / 24 VDC |
| **10PSST242** | Plug-in power supply |

* Required for installation (sold separately)

** Required for installation and adjustment (sold separately)

# LZR®-FLATSCAN W

SAFETY SENSOR FOR AUTOMATED WINDOWS

### Full Coverage of the Window
Pattern covers the entire window – including the inner frame borders – up to 13 feet

### Easy and Flexible Mounting
Universal mounting base offers flexible installation and allows a variety of positions to suit niche application needs

### Quick and Intuitive Configuration
The detection field size is defined by a simple hand movement; height and width of the field are automatically calculated

### Virtual Push Button
One or both virtual push buttons can be programmed to activate the opening or closing of the window

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement, Background analysis |
| **Detection Mode** | Presence |
| **Max. Detection Range** | 13' (diagonal)<br>(e.g. @ 40' width, max. 16') |
| **Number of Curtains** | 1 |
| **Measurement Points** | 400 |
| **Angular Resolution** | 0.27° |
| **Min. Object Size** | ¾" (depending on the settings and the installation) |
| **Optical Characteristics** | IR LASER, Class 1<br>wavelength: 905 nm<br>output power: < 0.1mW |
| **Supply Voltage** | 12 – 24 VDC ±15%<br>The equipment must be powered by a SELV limited power source ensuring double insulation between primary voltages and the Equipment supply.<br>The supply current should be limited to 1.5A. |
| **Power Consumption** | ≤ 2 W |
| **Typ. Response Time** | 400 ms |
| **Peak Current at Power-on** | 0.8A (max. 20 ms @ 24 VDC) |
| **Output**<br>Max. Switching Voltage<br>Max. Switching Current | 2 solid state relays (galvanic isolation - polarity free) 42 VAC/VDC<br>100 mA |
| **Input**<br>Max. Contact Voltage<br>Voltage Threshold | 1 optocoupler (galvanic isolated - polarity free)<br>30 V DC (over-voltage protected)<br>Log. H: >8 VDC<br>Log. L: <3 VDC |
| **LED Signals** | 1 tri-colored LED: detection/output status |
| **Dimensions** | 5 ⅜" (L) × 3 ¹¹⁄₃₂" (H) × 1 ⅓" (D)<br>(mounting base adds ½") |
| **Materials / Color** | PC, ASA / black |
| **Tilt Angles** | -2 – 6° (with mounting bracket)<br>2 – 10° (without mounting bracket) |
| **Protection Degree** | IP54 |
| **Temperature Range** | -22 – 140 °F if powered<br>14 – 140 °F without power |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Compliance** | IEC 60335-2-103<br>ISO 13849-1 (PL "d"); IEC 61508 (SIL2) |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCAN-WLB** | Safety sensor for automated windows (left) |
| **10LZRFLATSCAN-WRB** | Safety sensor for automated windows (right) |

# LZR®-FLATSCAN SW

SINGLE CURTAIN, STAND ALONE, DOOR MOUNTED, SAFETY SYSTEM FOR FULL- AND LOW-ENERGY SWING DOORS

### Background Independence
LASER technology ensures independence of all types of flooring (pedi-mats, carpet, reflective flooring, wet surfaces, etc.) and the surrounding environment of the door (guide rails, walls, weather, etc.)

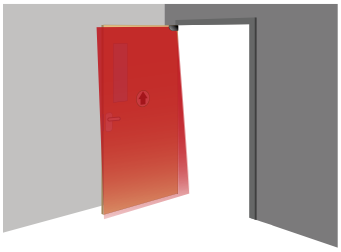
### Leading Edge Safety
Leading-edge safety extends the detection area beyond the leading edge of the door for enhanced safety

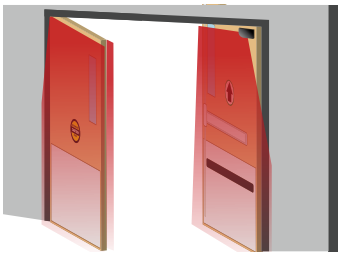
### Hand Gesture Setup™
Easy door-width programming using Hand-Gesture Setup™ reduces configuration time

### Reduced Components
Hub-less system offers fewer components for easier setup and installation

### Reduced Uncovered Zone
LASER technology provides a reduced uncovered zone of down to ¾ inch

### UL10B/C Listed
Fire rated for up to one hour





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | Presence |
| **Max. Detection Range** | 13' (diagonal) with reflectivity of 2%<br>(e.g. at (W) × 5' > max. (H) × 12')<br>*see Page 15 of Users Guide* |
| **Detection Area** | |
| Door Leaf Safety | 90° |
| Pinch Zone Safety | 16° |
| **Angular Resolution** | |
| Door Leaf Safety | 1.3° |
| Pinch Zone Safety | 0.2° |
| **Typ. Min. Object Size** | |
| Door Leaf Safety | 4" at 13' (in proportion to object distance, DIP 2 = ON) |
| Pinch Zone Safety | ¾" at 13' (in proportion to object distance, DIP 2 = ON) |
| **Emission Characteristics** | Wavelength 905 nm; |
| IR LASER | max. output pulse power 25 W; Class 1 |
| **Supply Voltage** | 12 – 24 VDC ±15% * |
| **Power Consumption** | ≤ 2 W |
| **Response Time** | |
| Door Leaf Safety | max. 50 ms |
| Pinch Zone Safety | max. 90 ms |
| **Test Input** | 30 VDC (max. switching voltage)<br>low < 1 V high > 10 V (voltage threshold) |
| **Output** | 2 electronic relays (galvanic isolation - polarity free) |
| Max. Switching Voltage | 42 VAC/VDC |
| Max. Switching Current | 100 mA |
| **LED Activity** | |
| Red | Swing-side detection |
| Green | Approach-side detection |
| Yellow | Error |
| **Dimensions** | 5 ½" (W) × 3 ⅓" (H) x 1" (D)<br>(mounting bracket adds ¼") |

| | |
|---|---|
| **Materials / Color** | PC / ASA / Black, White, or Silver |
| **Tilt Angles** | 2 – 10° (without mounting bracket) |
| **Degree of Protection** | IP54 (EN 60529) |
| **Temperature Range** | -22 – 140 °F (if powered) |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Min. Door Leaf Speed** | 2° / s |
| **Norm Conformity** | ISO 13849-1 Pl "d"/ CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2; UL 10B/C Fire-Rated 1 hour (file #R39071) - *black material only* |

* This sensor is powered by DC voltage only. If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.

# LZR®-FLATSCAN SW

SINGLE CURTAIN, STAND-ALONE, DOOR MOUNTED, SAFETY SYSTEM
FOR FULL- AND LOW-ENERGY SWING DOORS

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCAN-SWB** | Full-energy, swing door, safety system (black) |
| **10LZRFLATSCAN-SWS** | Full-energy, swing door, safety system (silver) |
| **10LZRFLATSCAN-SWW** | Full-energy, swing door, safety system (white) |
| **10LZRFLATSCAN-LELB** | Low-energy, swing door, safety system (left mount, black) |
| **10LZRFLATSCAN-LELS** | Low-energy, swing door, safety system (left mount, silver) |
| **10LZRFLATSCAN-LELW** | Low-energy, swing door, safety system (left mount, white) |
| **10LZRFLATSCAN-LERB** | Low-energy, swing door, safety system (right mount, black) |
| **10LZRFLATSCAN-LERS** | Low-energy, swing door, safety system (right mount, silver) |
| **10LZRFLATSCAN-LERW** | Low-energy, swing door, safety system (right mount, white) |
| **10LZRFLATSCAN-LB** | LZR-FLATSCAN SW sensor (left, black) |
| **10LZRFLATSCAN-LS** | LZR-FLATSCAN SW sensor (left, silver) |
| **10LZRFLATSCAN-LW** | LZR-FLATSCAN SW sensor (left, white) |
| **10LZRFLATSCAN-RB** | LZR-FLATSCAN SW sensor (right, black) |
| **10LZRFLATSCAN-RS** | LZR-FLATSCAN SW sensor (right, silver) |
| **10LZRFLATSCAN-RW** | LZR-FLATSCAN SW sensor (right, white) |
| **10LZRFLATSCANGDA** | LZR-FLATSCAN glass door accessory |
| **20.5433** | LZR-FLATSCAN control harness |
| **35.0213** | LZR-FLATSCAN SW replacement cover (left, black) |
| **35.0214** | LZR-FLATSCAN SW replacement cover (right, black) |
| **35.0220** | LZR-FLATSCAN SW replacement cover (left, white) |
| **35.0221** | LZR-FLATSCAN SW replacement cover (right, white) |
| **35.0242** | LZR-FLATSCAN SW replacement cover (left, silver) |
| **35.0243** | LZR-FLATSCAN SW replacement cover (right, silver) |
| **35.1329** | LZR-FLATSCAN primary/secondary harness |
| **70.5745** | Sentrex retrofit accessory |
| **70.5751** | LZR-FLATSCAN spacer (silver) |
| **70.5752** | LZR-FLATSCAN spacer (white) |
| **70.5753** | LZR-FLATSCAN spacer (black) |

# LZR®-FLATSCAN 3D SW

FOUR CURTAIN, STAND ALONE, DOOR MOUNTED, SAFETY SENSOR

### Advanced Safety
The four detection curtains ensure a full-safety coverage of the leaf, hinge area and leading edge of the door, exceeding all industry standards

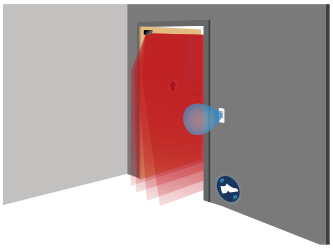
### Built-in Knowing Act Device
Two Virtual Push Buttons per sensor provide a non-contact form of door activation without wiring or installing in-wall switches

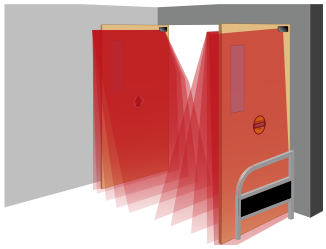
### Adaptive Sensing
High-resolution detection curtains create a reliable solution with the ability to self-adapt as the door opens, preventing false detections from guide rails and tight corridors

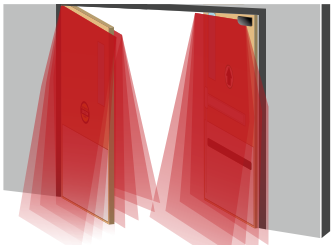
### Background Independence
LASER technology ensures independence of all types of flooring (pedi-mats, carpet, reflective flooring, wet surfaces, etc.) and the surrounding environment (weather and lighting)

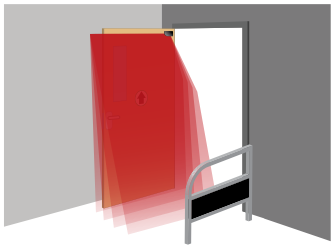
### Easy Setup
Hub-less system offers fewer components for a more straightforward setup and installation. While Hand Gesture Setup™ reduces configuration time of the detection field width

*This sensor is powered by DC voltage only. If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.*









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | Presence |
| **Max. Detection Range** | 13' (diagonal) with reflectivity of 2%<br>e.g. at 5' width, max. H = 12' |
| **Recommended Mounting Height** | 75 – 98" |
| **Opening Angle** | |
| Door Leaf Safety | 80° |
| Pinch Zone Safety | 20° |
| **Angular Resolution** | |
| Curtain 1 | 0.2° |
| Curtain 2 | 1° |
| Curtain 3 | 1.7° |
| Curtain 4 | 2.5° |
| **Tilt Angles** | 0 – 5° |
| **Typ. Min. Object Size** | ¾" at 13' in curtain C1 |
| **Min. Door Leaf Speed** | 2°/s |
| **Emission Characteristics (IEC 60825-1)** | IR LASER: wavelength 905 nm; output power < 0.1mW; Class 1 |
| **Supply Voltage*** | 12 – 24 VDC ±15% (to be operated from SELV-compatible power supplies only) |
| **Power Consumption** | < 2 W |
| **Response Time** | Typ. < 120 ms (max. 220 ms) |
| **Output** | 3 electronic relays (galvanic isolation - polarity free) |
| Max. Switching Voltage | 42 VAC/VDC |
| Max. Switching Current | 100 mA |
| **Dimensions** | 5 ¾" (L) × 3 ½" (H) × 2 ⅓" (D)<br>Mounting base: D + 1 ¾"<br>Spacer: D + 1 ½" |
| **Materials - Color** | PC/ASA - black |
| **Protection Degree** | IP44 (IEC 60529) |
| **LED Signals** | 1 RGB LED: Detection / Output Status |
| **Temperature Range** | -13 – 140 °F |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Compliance** | ISO 13849-1 Pl "d"/ CAT2; IEC 60825-1; IEC 62061 SIL 2 UL10 – file # R39071 |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRFLATSCAN3D-SWBK** | Left and right sensor kit |
| **10LZRFLATSCAN3D-SWBKU** | Left and right sensor kit w/ power supply |
| **10LZRFLATSCAN3D-LESWBK** | Sensor kit for low-energy doors |
| **10LZRFLATSCAN3D-LELBKIT** | Sensor kit for low-energy doors, left |
| **10LZRFLATSCAN3D-LERBKIT** | Sensor kit for low-enery doors, right |
| **10LZRFLATSCAN3D-LBK** | Single sensor kit, left |
| **10LZRFLATSCAN3D-RBK** | Single sensor kit, right |
| **10LZRFLATSCAN3D-LB** | Replacement sensor, left |
| **10LZRFLATSCAN3D-RB** | Replacement sensor, right |
| **10LZRFLATSCANGDA** | LZR-FLATSCAN glass door accessory |
| **35.0287** | LZR-FLATSCAN 3D SW replacement cover, left |
| **35.0288** | LZR-FLATSCAN 3D SW replacement cover, right |
| **35.0236** | LZR-FLATSCAN 3D SW replacement base, left |
| **35.0237** | LZR-FLATSCAN 3D SW replacement base, right |
| **70.5753** | Spacer |
| **20.5433** | LZR-FLATSCAN 3D SW control harness |
| **35.1329** | Primary / Secondary Harness |
| **70.5745** | Sentrex retrofit accessory |

# LZR®-H100

LASER SCANNER FOR GATE AND BARRIER APPLICATIONS

### Dual Relay Activation
Two relays allow for activation via motion or presence

### Effective Alternative to Loop Detectors
Ideal for applications where cutting ground for loops is prohibited, impossible, or expensive

### Reliable and Constant Detection
Time-of-Flight, presence based, opto-electronic sensor ensures accurate and immediate detection

### Trajectory Detection
Ability to detect vehicle trajectory during approach and departure

### Pedestrian Traffic Rejection
Ability to detect or ignore pedestrian traffic

### Large Detection Field
Maximum detection field of 32 ft by 32 ft (9 ¾ m by 9 ¾ m)

### Ease of Installation
Teach-in setup via walk path or remote control configuration

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | Motion and presence |
| **Max. Detection Range** | 32' × 32' (9 ¾ m) |
| **Min. Detection Field (safety)** | 1'8" (⅕ m)" |
| **Remission Factor** | > 2% |
| **Angular Resolution** | 0.3516° |
| **Emission Characteristics** | |
| IR LASER | Wavelength 905 nm;<br>output power 0.10mW (CLASS 1) |
| Red Visible LASER | Wavelength 635 nm;<br>output power 0.95mW (CLASS 2) |
| **Supply Voltage** | 10 – 35 VDC at sensor terminal |
| **Peak Current at Power-On** | 1.8 A (max. 80 ms at 35 V) |
| **Power Consumption** | < 5 W |
| **Response Time** | |
| Motion Detection | typ. 200 ms (adjustable) |
| Presence Detection | typ. 20 ms (max. 80 ms) |
| **Output** | 2 electronic relays (galvanic isolated – polarity free) |
| Max. Switching Voltage | 35 VDC / 24 VAC |
| Max. Switching Current | 80 mA (resistive) |
| Switching Time | $t^{ON}$ = 5 ms; $t^{OFF}$ = 5 ms |
| Output Resistance | typ 30 Ω |
| Voltage Drop on Output | < 0.7 V at 20 mA |
| **LED Activity** | |
| Blue | Power–on |
| Orange | Error status |
| Red/Green (x2) | Detection / Output Status<br>(green = no detection, red = detection) |
| **Dimensions** | 3 ⅝" (W) × 2 ¾" (H) × 5" (D)<br>mounting bracket: + ½" |
| **Cable Length** | 33' |
| **Materials** | PC, ASA |
| **Color** | Black |
| **Rotation Angle on Bracket** | ±5° (lockable) |
| **Tilt Angle on Bracket** | ±3° |
| **Degree of Protection** | NEMA 4 / IP65 |
| **Temperature Range** | -22 – 140 °F (-30 – 60 °C) powered<br>14 – 140 °F (-10 – 60 °C) unpowered |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Pollution on Front Screens** | max. 30%; homogenous |
| **Norm Conformity** | 2006 / 95 / EC: LVD<br>2004 / 108 / EC: EMC<br>IEC 60825-1:2007<br>IEC 61000-6-2:2005<br>2002 / 95 / EC: RoHS<br>IEC 60529:2001<br>IEC 60950-1:2005<br>IEC 61000-6-3:2006 |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRH100** | LASER scanner with highly precise detection zone |
| **10LBA** | LZR mounting bracket accessory |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10LHB** | LZR housing bracket |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10PSST242** | Plug-in power supply |
| **10REMOTE** | Universal remote control for sensor setup |
| **35.1242** | 30' harness, 8-conductor |

# LZR®-I30

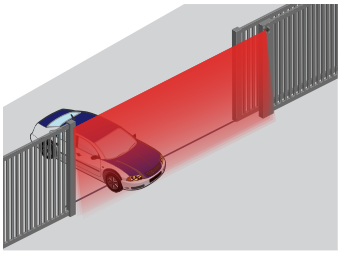
LASER SCANNER FOR INDUSTRIAL AUTOMATION

### 3-Dimensional Safety Zone
Four curtains of detection each capable of 360 in by 360 in (30 ft by 30 ft)

### Energy Savings
Has the ability to ignore dynamic ground conditions and extreme weather

### Highly Accurate Detections
Detects objects as small as 2 inches at 30 feet away, depending on application

### Easily Adjustable
Three visible LEDs for pattern alignment



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | Motion and presence (EN 12453 Typ. E) |
| **Max. Detection Range** | 30' × 30' |
| **Remission Factor** | > 2% |
| **Emission Characteristics** | |
| IR LASER | Wavelength 905 nm; output power 0.10mW (CLASS 1) |
| Red Visible LASER | Wavelength 635 nm; output power 0.95mW (CLASS 2) |
| **Supply Voltage** | 10 – 35 VDC at sensor terminal (to be operated from SELV compatible power supplies only) |
| **Peak Current at Power-On** | 1.8 A (max. 80 ms at 35 V) |
| **Power Consumption** | < 5 W |
| **Response Time** | Typ. 20 ms; max. 80 ms (+ output activation delay) |
| **Output** | 2 electronic relays (galvanic isolated – polarity free) |
| Max. Switching Voltage | 35 VDC / 24 VAC |
| Max. Switching Current | 80 mA (resistive) |
| **LED Activity** | |
| Blue | Power–on |
| Orange | Error status |
| Red/Green (x2) | Detection / Output Status (green = no detection, red = detection) |
| **Dimensions** | |
| Housing | 5" (W) × 2 ¾"(H) × 3 ⅔(D) |
| 10LBA | Adds 1 1/20" |
| **Cable Length** | 30' |
| **Materials** | PC, ASA |
| **Color** | Black |
| **Rotation Angle on Bracket** | ±5° (lockable) |
| **Tilt Angle on Bracket** | ±3° |
| **Degree of Protection** | NEMA 4 / IP65 |
| **Temperature Range** | -22 – 140 °F if powered<br>14 – 140 °F if unpowered |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Pollution on Front Screens** | Max. 30%; homogenous |

| | | |
|---|---|---|
| **Test Body Dimensions** | 700 mm × 300 mm × 200 mm (28" × 12" × 8") | |
| **Norm Conformity** | 2006 / 95 / EC: LVD<br>2002 / 95 / EC: RoHS<br>2004 / 108 / EC: EMC<br>2006 / 42 / EC: MD<br>EN 12453:2000 chapter 5.1.1.6, chapter 5.5.1 Safety device E<br>EN 12978:2009<br>EN ISO 13849-1:2008 CAT2, Pl "d"; EN 60529:2001 | IEC 60825-1:2007<br>EN 60950-1:2005<br>EN 61000-6-2:2005<br>EN 61000-6-3:2006<br>IEC 61496-1:2009<br>EN 61496-3: 2008 ESPE Type 2<br>EN 62061:2005 SIL 2 |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRI30** | LASER scanner with highly precise detection zone |
| **10LBA** | LZR mounting bracket accessory |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |
| **10PSMDR2024** | DIN rail power supply, 100 – 240 VAC / 24 VDC |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PSVR5T** | Voltage regulator, 24 VAC / 24 VDC |
| **35.1242** | 8-conductor cable (30') |

# LZR®-MICROSCAN T

STAND-ALONE, DOOR-MOUNTED, SWING-DOOR, SAFETY SYSTEM

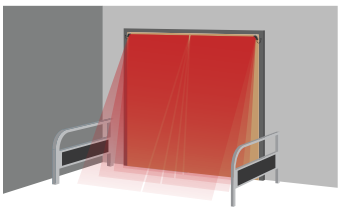
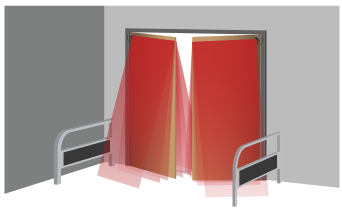
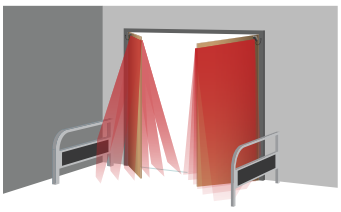
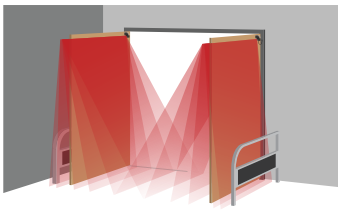
### Easy to Install
Plug-and-play technology utilizing a centralized hub and intuitive LCD interface greatly reduces installation and setup time

### Highly Accurate Detection
High resolution, self-adapting detection zones, coupled with reduced uncovered zones create the most accurate and reliable safety sensor

### Built-in Troubleshooting
On-board error log ensures easy technical support

### Standards Compliant
Fully monitored internally, capable of external monitoring

### UL10B/C Listed
Fire-rated for up to three hours

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | Presence |
| **Min. / Max. Door Width** | 20 – 48″<br>(measured from leading edge to sensor LED) |
| **Mounting Height** | 75 – 98″<br>(measured from finished floor to sensor LED) |
| **Remission Factor** | > 2% |
| **Angular Resolution** | 2.56° |
| **Testbody** | 28" (H) × 12" (W) × 8" (D) |
| **Emission Characteristics**<br>IR LASER | <br>Wavelength 905 nm; maximum output pulse power 35 W (Class I) |
| **Supply Voltage** | 12 – 30 VDC (15 W Class II) |
| **Power Consumption** | < 15 W |
| **Response Time** | Typ. 40 ms; max. 80 ms |
| **Output Rating** | 4 electro-mechanic relays<br>(galvanic isolated - polarity free)<br>All outputs Class 2 supply, 12 – 24 VAC,<br>12 – 30 VDC, max. 15 W |
| **Input Rating** | 2 optocouplers (galvanic isolated - polarity free)<br>12 – 30 VDC, max. 15 W |
| **Test Input** | 8 – 15 VDC |
| **Temperature Range** | -13 – 121 °F (-25 – 55 °C) |
| **Degree of Protection** | Hub: IP20 / NEMA 1<br>Sensor: IP53 / NEMA 3 |
| **Humidity** | 0 – 95%, non-condensing |
| **Vibrations** | < 2 G |
| **Materials** | PC, ASA |
| **Norm Conformity** | EN 60825-1-Eye-safety class 1 IR LASER (905 nm)<br>UL10B/C Fire Rated 3 hrs (file #R39071) |
| **Mounting Angle (rotational)** | 35° fixed |
| **Tilt Angle** | 0 – 5° (for angles less than 5°, contact Technical Support) |
| **Pollution on Front Screens** | Maximum 30%, homogenous |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRMICROSCAN1T** | Single door kit<br>(1) left sensor, (1) right sensor, (1) hub,<br>(1) primary harness, (1) secondary harness,<br>(1) door control harness, (1) home switch,<br>(1) door loop / cap kit, (1) sensor spacer |
| **10LZRMICROSCAN1UT** | (1) 10LZRMICROSCAN1T<br>(1) 10LZRMICROSCAN-UKIT |
| **10LZRMICROSCAN2T** | Pair/Dual-egress door kit<br>(2) left sensors, (2) right sensors, (1) hub,<br>(2) primary harnesses, (2) secondary harnesses,<br>(2) door control harnesses, (2) home switches, (2) door loops / cap kits, (2) sensor spacers |
| **10LZRMICROSCAN2UT** | (1) 10LZRMICROSCAN2T<br>(1) 10LZRMICROSCAN-UKIT |
| **10MICROSCAN-UKIT** | Universal accessory kit converts Single door kit and Pair/Dual-egress door kit into 10MICROSCAN1UT and 10MICROSCAN2UT<br>(1) power supply<br>(1) ON / OFF / HOLD OPEN switch |

## OPTIONAL MOUNTING KITS

| | |
|---|---|
| **10MICROSCANMOUNT** | Center-pivot door mounting kit includes:<br>(1) Left mounting arm<br>(1) Right mounting arm |
| **10MICROSCAN-Y** | Glass/Fire door mounting kit includes:<br>(1) 20.5319 - 20″ secondary harness<br>(1) 20.5320 - "Y" cable LZR-MICROSCAN-T hub to LZR-MICROSCAN-T harness<br>(1) 70.0202 - 26″ standard door cord loop<br>(1) 55.0001 - Door loop end cap for door frame |

# LZR®-MICROSCAN T

STAND-ALONE, DOOR-MOUNTED, SWING DOOR, SAFETY SYSTEM

## REPLACEMENT COMPONENTS

| | |
|---|---|
| **10LZRMICROLEFTT** | Left LZR-MICROSCAN T sensor |
| **10LZRMICRORIGHTT** | Right LZR-MICROSCAN T sensor |
| **10LZRMICROSCANHUB** | LZR-MICROSCAN T hub |
| **10DOORSWITCH** | Universal Kit ON / OFF / HOLD OPEN switch |
| **20.5095** | Power supply harness |
| **20.5096** | EAGLE harness for LZR-MICROSCAN T |
| **20.5222** | Door control harness |
| **20.5304** | System harness |
| **20.5310** | ON / OFF / HOLD OPEN switch jumper |
| **20.5319** | Secondary harness for 10MICROSCANMOUNT (20") |
| **20.5320** | "Y" cable LZR-MICROSCAN-T hub to LZR-MICROSCAN-T harness |
| **20.5322** | LZR-MICROSCAN T plug-n-play harness for Horton 4190 |
| **20.5347** | Hub to LZR-MICROSCAN T harness (30') |
| **30.5558** | Universal kit power supply |
| **30.5580** | 2-wire switch |
| **35.1326** | Primary sensor harness |
| **35.1327** | Secondary sensor harness |
| **41.7922** | Left pass-through LZR-MICROSCAN T sensor end cap |
| **41.7923** | Right pass-through LZR-MICROSCAN T sensor end cap |
| **41.8632** | End cap screws |
| **50.0046** | Velcro tabs |
| **50.0048** | Spacer mount screws |
| **55.0001** | Jamb cap kit |
| **50.1818** | Spacer mount screws (metal) |
| **50.5282** | Spacer mount screws (wood) |
| **50.5283** | Home Switch (surface mount) |
| **70.0202** | 26" standard door cord loop |
| **70.5554** | LZR-MICROSCAN T sensor spacer |
| **70.5745** | Sentrex retrofit accessory |
| **35.1321** | LZR-MICROSCAN T replacement cover |

# LZR®-S600

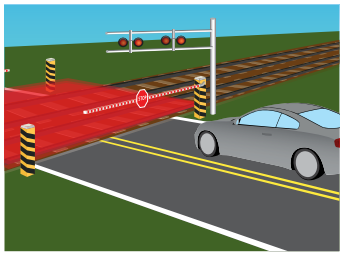
LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

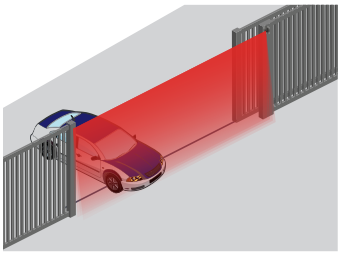
**BEA's Largest Detection Field**
Maximum detection range of 82 ft by 82 ft

**Reduce False Detections**
High immunity to environmental interferences

**Safe and Reliable**
External, entrapment protection device capable of monitoring with interfaces building management systems

**Eliminates False Detections**
Has the ability to ignore dynamic ground conditions and extreme weather





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Detection Mode** | motion and presence |
| **Detection Range** | Default: 33' x 33' at 2% remission factor<br>(max. 82' x 82') |
| **Angular Resolution** | 0.3516° |
| **Min. Detected Object Size (typ.)** | 0.8 in at 10'<br>1.4 in at 16'<br>2.8 in at 33'<br>6.9 in at 82' |
| **Emission Characteristics** | |
| IR LASER | wavelength 905 nm; output power 0.10mW (CLASS 1) |
| Red visible LASER | wavelength 635 nm; output power 0.95mW (CLASS 2) |
| **Supply Voltage** | 10 – 35 VDC at sensor side |
| **Power Consumption** | < 5 W |
| **Peak Current at Power-on** | 1.8 A (max. 80 ms at 35 V) |
| **Cable Length** | 33' |
| **Response Time** | typ. 20 ms (max. 80 ms)<br>+ output activation delay |
| **Output** | 2 electronic relays (galvanic-isolated – polarity-free) |
| Max. switching voltage | 35 VDC / 24 VAC |
| Max. switching current | 80 mA (resistive) |
| Switching time | $t_{ON}$ = 5 ms; $t_{OFF}$ = 5 ms |
| Output resistance | typ 30 Ω |
| Voltage drop on output | < 0.7 V at 20 mA |
| Leakage current | < 10 µA |
| **Input** | 2 optocouplers (galvanic-isolated – polarity-free) |
| Max. contact voltage | 30 VDC (over-voltage protected) |
| Voltage threshold | Log. Active High: > 8 VDC Log. Active Low: < 3 VDC |
| **Response Time Monitoring Input** | < 5 ms |
| **LED Activity** | |
| Blue | Power–on |
| Orange | Error status |
| Red/Green (x2) | Detection / Output Status<br>(green = no detection, red = detection) |
| **Dimensions** | 3 ⅝"× 2 ¾"× 5" (W × H × D)<br>mounting bracket: + ½" |
| **Material** | PC/ASA |
| **Color** | Black |

| | |
|---|---|
| **Mounting Angles on Bracket** | -45°, 0°, 45° |
| **Rotation Angles on Bracket** | -5 – 5° (lockable) |
| **Tilt Angles on Bracket** | -3 – 3° |
| **Protection Degree** | NEMA 4 / IP65 |
| **Temperature Range** | powered: -22 – 140 °F (-30 – 60 °C)<br>unpowered: 14 – 140 °F (-10 – 60 °C) |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2G |
| **Pollution on Front Screen** | max. 30%, homogenous |
| **Norm Conformity** | 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; IEC 60529:2001; IEC 60825-1:2007; IEC 60950-1:2005; IEC 61000-6-2:2005; IEC 61000-6-3:2006 |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRS600** | Presence detection for building automation and security |
| **10LBA** | LZR mounting bracket accessory |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PSVR5T** | Voltage regulator, 24 VAC / 24 VDC |
| **35.1242** | 8-conductor cable (30') |

# MICROCELL ONE

PHOTO BEAMS FOR PEDESTRIAN, AUTOMATIC DOORS

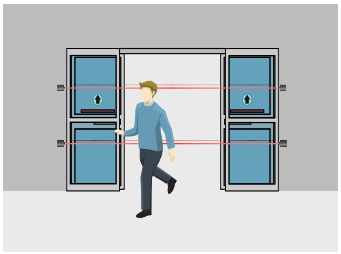
### Enhanced Safety on Pedestrian Doors
Easy installation on all types of pedestrian doors

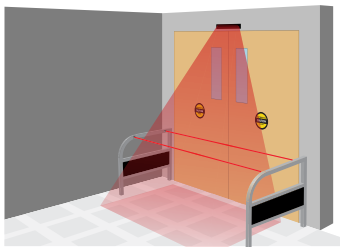
### User-Friendly Setup
LED indicators assist in setting up alignment

### Standard Compliant
Can be mounted as low as 12 inches from the floor

### Ideal for Wide Doors
Maximum range of detection of 15 feet with an 8° alignment tolerance

### Compatible with BEA's BODYGUARD-T
Capable of meeting ANSI 156.10 standard for swing-door safety when paired with BEA's BODYGUARD-T





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared |
| **Detection Mode** | Presence (beam interruption) |
| **Min. Mounting Height** | 12" from floor |
| **Min. Distance Between Beams** | 12" (crossed beams) |
| **Min. Range of Detection** | 3' |
| **Max. Range of Detection** | 15' |
| **Alignment Tolerance** | 8° |
| **Response Time** | ≤ 40 ms |
| **Hold Time** | 300 ms |
| **Supply Voltage** | 12 – 24 VAC; ±10%<br>12 – 24 VDC; -5% / 30% |
| **Current Consumption** | < 100 mA |
| **Output Contact Rating** | 1 relay (NC / NO contacts) |
| Max. Contact Voltage | 50 VAC/VDC |
| Max. Contact Current | 1 A |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Operating Temperature** | -30 – 131 °F |
| **Immunity** | |
| Sunlight | 75,000 lux |
| Incandescent Lamp | 25,000 lux at 8° angle |
| Electromagnetic Compatibility | According to 89 / 336 EEC |
| **Dimensions** | |
| Head Body | < 15⁄32" (L embed) × 15⁄32" (ø) |
| Head Harness | 5⁄8" (ø) |
| Control Board | 3 1⁄33" (W) × 1 2⁄25" (H) × 2 1⁄33" (D) |
| **Cable Length** | 18' (standard)<br>32' (optional) |
| **Material** | ABS |
| **Degree Of Protection** | NEMA 4 / IP65 (beam heads) |

## PRODUCT SERIES

| | |
|---|---|
| **10MICROCELL1S** | Single safety beam with control box (18' cable) |
| **10MICROCELL1SL** | Single safety beam with control box (32' cable) |
| **10MICROCELL1D** | Double safety beam with control box (18' cable) |
| **10MICROCELL1DL** | Double safety beam with control box (32' cable) |
| **10MICROCELLADAPTER** | Wiring kit to retrofit BEA MICROCELL beams where Optex beams are currently installed<br>***Must order with part number 03.0109 and the 10MICROCONTROL*** |
| **10MICROCONTROL** | MICROCELL control box |
| **10MICRO1SADAPT** | MICROCELL single beam adapter kit allows for MICROCELL beams to replace Optex beams without running a new cable<br>(1) set of MICROCELL emitter and receiver heads,<br>(1) 10MICROCELLADAPTER,<br>(1) 10MICROCONTROL |
| **10MICRO1DADAPT** | MICROCELL double beam adapter kit allows for MICROCELL beams to replace Optex beams without running a new cable<br>(2) sets of MICROCELL emitters and receiver heads,<br>(2) 10MICROCELLADAPTER,<br>(1) 10MICROCONTROL |
| **20.0031** | 3" Emitter and 3" Receiver (ordered as a set) |
| **20.0045** | Jamb cap kit with screws |
| **20.0055** | Emitter and Receiver set (32' cable) |
| **20.0056** | Emitter and Receiver set (18' cable) |

# R2E-100

FOCUSED ACTIVE INFRARED, REQUEST-TO-EXIT SENSOR

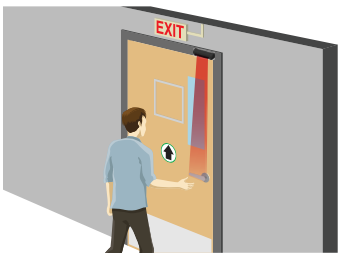
### Standards Compliant
UL294 and ULCS319 Listed

### Define Your Tilt Angle
Adjustable tilt angle from zero to 10°

### Customizable Detection Zones
Adjustable detection range from 20 to 48 inches

### Low-Profile Mounting
Low-profile sensor mounts on or above the door frame

### Multiple Inputs
Three DRY auxiliary inputs: a push button or other request-to-exit device, a card reader or other request-to-enter device, and a door position switch




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Detector Type** | Focused, active infrared |
| **Supply Voltage** | 12 – 24 VAC/VDC; ±10% at 60 Hz |
| **Current** | |
| Sounder OFF | 155 mA |
| Sounder MAX VOLUME | 200 mA |
| **Temperature (UL Install)** | 32 – 120 °F (0 – 49 °C) |
| **Temperature** | -20 – 120 °F (-29 – 49 °C) |
| **Humidity** | |
| (ULCS319 Installation) | 0 – 93% non-condensing |
| (UL294 Installation) | 0 – 85% non-condensing |
| **Detection Range*** | 20 – 48”, adjustable via potentiometer |
| **Relay** | 2 Form “C” contact sets;<br>1.3 A at 24 VAC / 30 VDC |
| **Relay Hold Time** | 0.5 – 60 s, adjustable via potentiometer |
| **Sounder** | 85 dB max, adjustable volume |
| **LEDs** | Green, red, yellow, orange |
| **REX Input** | DRY contact, NO |
| **Card Reader Input** | DRY contact, NC |
| **Door Position Switch Input** | DRY contact, NO |
| **Dimensions** | 6 7⁄10” (W) × 1 7⁄10” (D) × 2” (H) |
| **Materials** | ABS, PC |
| **Wiring Interface** | JST (14-pin) with 4’ cable |
| **Norm Conformity** | UL294, ULCS319<br>FCC Part 15 B |

* R2E-100 can accommodate swing doors up to 7 feet high.

## PRODUCT SERIES

| | |
|---|---|
| **10R2E-100** | UL / ULC Listed, active infrared, request-to-exit detector specifically designed for access control applications |

BEA SENSING SOLUTIONS

# SUPERSCAN-T

DOOR MOUNTED, ACTIVE INFRARED, SAFETY SENSOR

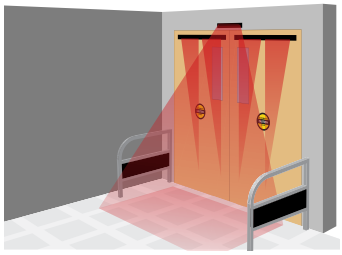
### Fit to the Application
Housing available up to 102 inches in length; can be field cut to desired door width

### ANSI Compliant
Capable of meeting ANSI 156.10 standard for swing-door safety when coupled with BEA's BODYGUARD-T

### Functional Design
Designed to mount at the top of the door to reduce accidental damage

### Customizable
Can be set to background analysis mode to reduce the chance of false detection from faulty environmental situations

### Standards Compliant
Capable of external monitoring



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared with background suppression |
| **Detection Mode** | Presence |
| **Measurement of Distance** | Triangulation |
| **Power Supply** | 12 – 24 VAC/VDC ±10% |
| **Output Interface; Relay** | Relay – max. contact rating: 1A at 30 V (resistive) |
| **Detection Range** | 0 – 8′ |
| **Distance Adjustment** | 2 – 8′ (rotating cam with linear adjustment) |
| **Max. Mounting Height** | 8′ |
| **Detection Signal Duration** | Infinite presence detection |
| **Detection Time** | < 50 ms |
| **Output Hold Time** | Potentiometer range: 0.1 – 4.5 s |
| **Operating Temperature Range** | -30 – 140 °F |
| **PCB Dimensions** | |
| Primary | 10.91″ (W) × 1.5″ (H) |
| Secondary | 8.75″ (W) × 1.5″ (H) |
| **Connector to Door Controller** | 8-position screw terminal on Primary PCB |
| **Primary-to-Secondary Connection** | Flat-ribbon cable with connectors and key lock |
| **Max. Number of Secondaries** | 8 |
| **Functions Selection** | Detection mode: NO or NC<br>Normal mode or Background Analysis mode |

## PRODUCT SERIES

**See page 39...**

# SUPERSCAN-T INDUSTRIAL

ACTIVE INFRARED, SAFETY SENSOR

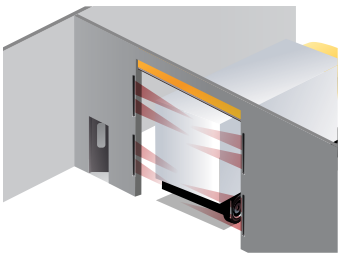
### Fit to the Application
Housing available up to 96 inches; can be field-cut to desired door width

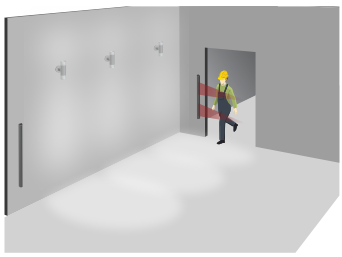
### User-Defined Detection Zones
Detection zone of 24 to 96 inches

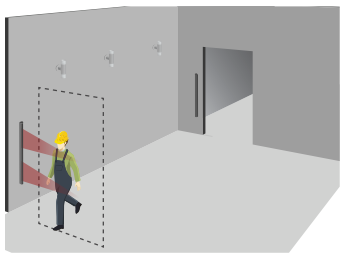
### Adjustable Detection Zone
Can be set to background analysis mode to reduce the change of false detection from faulty environmental situations

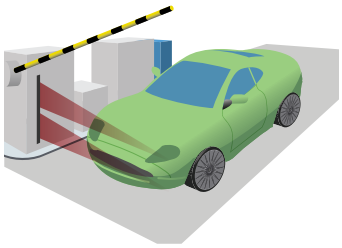
### Customizable Hold Time
Relay hold time can be adjusted from 0.1 to 4.5 seconds

### Standards Compliant
Capable of external monitoring









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared with background suppression |
| **Detection Mode** | Presence |
| **Measurement of Distance** | Triangulation |
| **Power Supply** | 12 – 24 VAC/VDC ±10% |
| **Output Interface; Relay** | Relay – max. contact rating: 1A at 30 V (resistive) |
| **Detection Range** | 0 – 8′ |
| **Distance Adjustment** | 2 – 8′ (rotating cam with linear adjustment) |
| **Max. Mounting Height** | 8′ |
| **Detection Signal Duration** | Infinite presence detection |
| **Detection Time** | < 50 ms |
| **Output Hold Time** | Potentiometer range: 0.1 – 4.5 s |
| **Operating Temperature Range** | -30 – 140 °F |
| **PCB Dimensions** | |
| Primary | 10.91″ (W) × 1.5″ (H) |
| Secondary | 8.75″ (W) × 1.5″ (H) |
| **Connector to Door Controller** | 8-position screw terminal on Primary PCB |
| **Primary-to-Secondary Connection** | Flat-ribbon cable with connectors and key lock |
| **Max. Number of Secondaries** | 8 |
| **Functions Selection** | Detection mode: NO or NC<br>Normal mode or Background Analysis mode |

## PRODUCT SERIES

**See page 39...**

# SUPERSCAN-T / INDUSTRIAL

ACTIVE INFRARED, SAFETY SENSOR

## PRODUCT SERIES

| | |
|---|---|
| **10SSTI** | 1 Primary<br>34 ½" end cap to end cap (for 36" doors) |
| **10SSTICUSTOM** | 1 Primary<br>Custom Length (13" min.) |
| **10SSTI40** | 1 Primary<br>40" end cap to end cap (for 42" doors) |
| **10SSTI42** | 1 Primary<br>42" end cap to end cap (for 44" doors) |
| **10SSTI48** | 1 Primary<br>48" end cap to end cap (for 50"+ doors) |
| **10SSTII** | 1 Primary + 1 Secondary<br>34 ½" end cap to end cap (for 36" doors) |
| **10SSTIICUSTOM** | 1 Primary + 1 Secondary<br>Custom Length (24 ½" min.) |
| **10SSTII40** | 1 Primary + 1 Secondary<br>40" end cap to end cap (for 42" doors) |
| **10SSTII42** | 1 Primary + 1 Secondary<br>42" end cap to end cap (for 44" doors) |
| **10SSTII44** | 1 Primary + 1 Secondary<br>44" end cap to end cap (for 46" doors) |
| **10SSTII48** | 1 Primary + 1 Secondary<br>48" end cap to end cap (for 50"+ doors) |
| **10SSTIII** | 1 Primary + 2 Secondaries<br>34 ½" end cap to end cap (for 36" doors) |
| **10SSTIIICUSTOM** | 1 Primary + 2 Secondaries<br>Custom Length (34 ½" min.) |
| **10SSTIVCUSTOM** | 1 Primary + 3 Secondaries<br>Custom Length (46 ½" min.) |
| **10SSTSECONDARY** | SUPERSCAN-T secondary unit (no housing)<br>*includes ribbon connector* |
| **10SSTPRIMARY** | SUPERSCAN-T primary unit (no housing) |
| **10SSQD** | Quick disconnect for SUPERSCAN-T<br>*one needed per door* |

| | |
|---|---|
| **10SSHARDWARE** | SUPERSCAN-T hardware kit<br>*Includes cord sheath, jamb caps with screws, and end caps with screws* |
| **10CAPKIT** | (1) left + (1) right end caps and mounting screws |
| **30.0015** | Ribbon connector cable connects primaries and secondaries |
| **41.3879** | Adjustable mounting clips for primary and secondary |
| **55.0001** | Door cord jamb cap and screw |
| **70.0025** | Aluminum housing, ordered per inch (stocked in 102" lengths) |
| **70.0048** | Aluminum housing cut to 38 ½"<br>(for a 40" SUPERSCAN-T) |
| **70.0049** | Aluminum housing cut to 40 ½"<br>(for a 42" SUPERSCAN-T) |
| **70.0050** | Aluminum housing cut to 46 ½"<br>(for a 48" SUPERSCAN-T) |
| **70.0138** | Lens piece, ordered per inch (stocked in 102" lengths) |
| **70.0202** | Standard 26" SUPERSCAN-T door cord sheath, ordered per piece |
| **70.0203** | Lens piece cut to standard 33" lens<br>(for a 34 ½" SUPERSCAN-T) |
| **70.0304** | SUPERSCAN-T hardware kit<br>*Includes cord sheath and jamb caps with screws* |
| **70.0319** | Lens piece cut to 38 ½"<br>(for a 40" SUPERSCAN-T) |
| **70.0320** | Lens piece cut to 40 ½"<br>(for a 42" SUPERSCAN-T) |
| **70.0321** | Lens piece cut to 46 ½"<br>(for a 48" SUPERSCAN-T) |

# BEAMBOX

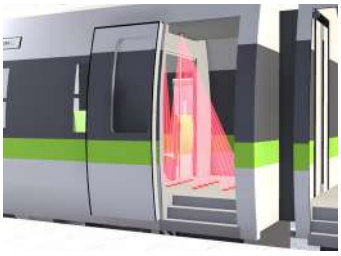
ACTIVE INFRARED, MOTION AND PRESENCE SENSOR

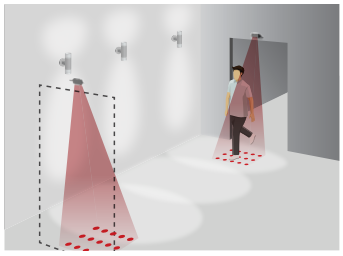
### Off-Door Presence Detection
Three rows of five infrared spots ideal for unique off-door applications

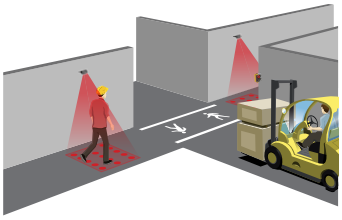
### Multiple Preset Detection Zones
Four infrared immunity modes and nine unique preset patterns are available

### Customizable to Your Application
Typical detection area of 3 ¼ by 3 ¼ feet when mounted at a height of 7 feet

### Low-Profile Design
Recessed mounting for low-profile applications








## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared with background analysis |
| **Detection Mode** | Motion and presence |
| **Optical Features** | 15 independent IR spots with a diameter of typ. 0.43" |
| **Maximum Mounting Height** | 8 ⅕' (flush mounting) |
| **Tilt Angles** | 0 – 20° vertical in steps of 5° |
| **Detection Zone** | 3 3⁄10' (W) × 3 3⁄10' (D)<br>at mounting height 6 ½' with tilt angle at 20° |
| **Reaction Time** | < 100 ms |
| **Supply Voltage** | 12 – 30 VAC ±10%;<br>12 – 45 VDC ±10% |
| **Power Consumption** | < 3 W (VA) |
| **Output** | Relay (free of potential change-over contact) |
| Max. Contact Voltage | 42 VAC – 60 VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Monitoring Input** | Optocoupled (free of potential) |
| Input Voltage | 10 – 24 VDC |
| Input Current | < 10 mA (at 24 V) |
| **Connection (Sensor Side)** | Unpluggable, integrated 7-pin connector |
| **Hold Time** | 0.5 – 9 s (adjustable) |
| **LEDs** | Red and green |
| **Mains Frequency** | 50 – 60 Hz |
| **Temperature Range** | -13 – 126 °F (operating);<br>-22 – 140 °F (storage) |
| **Degree of Protection** | IP41 |
| **Dimensions** | 5 ½" (W) × 1 ½" (H) × 2 ⅕" |
| **Weight** | 3 ½ oz |
| **Enclosure Material** | PC |
| **Color** | Black |
| **Cable Length** | 8' |

## PRODUCT SERIES

| | |
|---|---|
| **10BEAMBOX** | Uses a 3 × 5 matrix of infrared spots (15 total) where each can be individually activated<br>*Monitoring capable* |
| **10REMOTE** | Universal remote control for sensor setup |
| **10SPOTFINDER** | Active-infrared-spot finder |

# LZR®-WIDESCAN

DOWNLOAD


**Easily configure sensor settings with the LZR-WIDESCAN mobile app. The mobile app provides a complete view of sensor settings, from field configurations to immunity.**

GET IT ON Google Play

Download on the App Store

READ MORE ON PAGE 49

# IS40 / XL

MOTION AND PRESENCE SENSORS FOR INDUSTRIAL DOORS

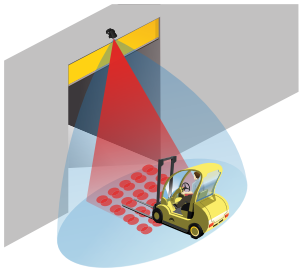
### Energy Savings
Bidirectional, unidirectional approach, and unidirectional depart microwave detection options

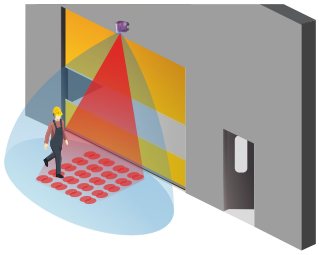
### Adjustable Detection Settings
Six modes of detection filtering are available for microwave immunity, as well as pedestrian and parallel traffic rejection

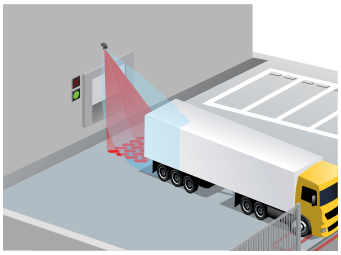
### Customizable Patterns
Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment

### Reduce False Detections
Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light, and sun

### Programmable Via Remote
Remote control programming enables user to quickly and safely make changes from the ground (sold separately)







## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Technology** | Microwave Doppler radar | Active infrared |
| **Detection Mode** | Motion | Presence |
| **LED Activity** | Green (activation relay) | Red (presence relay) |
| **Transmitter Frequency / Wavelength** | 24.150 GHz | 875 nm |
| **Transmitter Power Density** | < 5mW / cm² | < 250 mW / m² |
| **Max. Detection Field** | | |
| IS40 | 13’ × 16 ½’ | 10’ × 10’** |
| IS40XL | 13’ × 6 ½’* | 7 ½’ × 7 ½’*** |
| **Output Hold Time** | 0.5 – 9 s | 0.5 s |
| **Min. Detection Speed** | 2 in/s | 0 in/s to activate detection |
| **Tilt Angle** | -8 – 22° (relative to sensor face) | 15 – 45° |
| **Mains Frequency** | 50 – 60 Hz | |
| **Power Consumption** | < 3.5 W | |
| **Output** | 2 relays (free of potential change-over contact) | |
| Max. Contact Voltage | 42 VAC/VDC | |
| Max. Contact Current | 1 A (resistive) | |
| Max. Switching Power | 30 W (DC) / 48 VA (AC) | |
| **Installation Height** | | |
| IS40 | 8 – 16’ | |
| IS40XL | 6 ½ – 11 ½’ | |
| **Temperature Range** | -22 – 140 °F | |
| **Dimensions** | 3 ¾” (W) × 4” (H) × 5” (L) | |
| **Materials** | ABS, PC | |
| **Cable Length** | 32’ | |
| **Degree of Protection** | NEMA 4 / IP65 | |
| **Norm Conformity** | R&TTE: 1999 / 5 / EC<br>EMC 2004 / 108 / EEC | |

* Determines field size

** Measured at 30° / Field size 9 / Mounting Height: 16’, XL: 11 ½’

*** Zone detected with the SPOTFINDER (i.e. slightly larger than the effective detection field)

## PRODUCT SERIES

| | |
|---|---|
| **10IS40** | Dual technology industrial sensor utilizing microwave motion and active infrared presence detection |
| **10IS40XL** | Dual technology industrial sensor utilizing microwave motion and active infrared presence detection for low mounting heights |
| **10INDBRACKET** | Industrial mounting bracket |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10SPOTFINDER** | Active infrared spotfinder |
| **10REMOTE** | Universal remote control for sensor setup |
| **35.1566** | 8-pin conductor cable (30’) |

# IXIO-DT1

MOTION AND PRESENCE SENSOR FOR AUTOMATIC, SLIDING DOORS

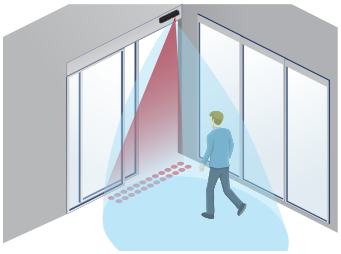
### Energy Efficient
Ten microwave activation sensitivity settings and three infrared safety immunity settings

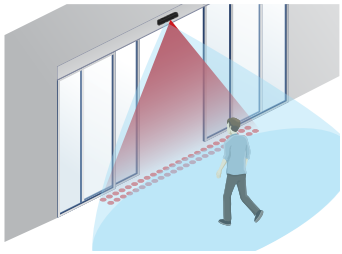
### Precise Presence Detection
Two 24 spot, high density, infrared, safety curtains providing precise presence detection

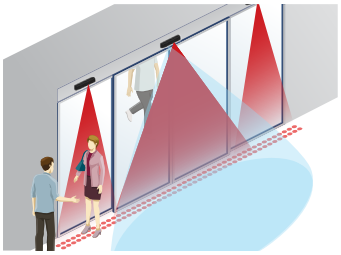
### Easily Adjustable
Four visible, red, alignment spots are projected on the ground to assist in precise IR curtain adjustment

### Ease of Setup
Intelligent programming and troubleshooting via a menu-driven LCD

### Standards Compliant
Fully monitored internally, capable of external monitoring







## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Technology** | Microwave Doppler radar | Active infrared |
| **Detection Mode** | Motion | Presence |
| **Transmitter Frequency** | 24.150 GHz | N/A |
| **Transmitter Radiated Power** | < 20 dBm EIRP | N/A |
| **Transmitter Power Density** | < 5 mW / cm² | N/A |
| **Spot Size** | N/A | 2" × 2" |
| **Max. Number of Spots** | N/A | 24 per curtain |
| **Max. Number of Curtains** | N/A | 2 |
| **Output** | Electro-mechanical-relay (potential and polarity free) | Solid-state-relay (potential and polarity free) |
| Max. Contact Voltage | 30 VDC | 42 VAC/VDC |
| Max. Contact Current | 1 A | 400 mA |
| Hold Time | 0.5 – 9 s (user adjustable) | 0.3 – 1 s |
| **Test Input** | | |
| Sensitivity | Low: < 1 V<br>High: > 10 V (max. 30 V) | |
| Response time on test request: | < 5 ms (typical) | |
| **Supply Voltage** | 12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only) | |
| **Power Consumption** | < 2.5 W | |
| **Mounting Height** | 6 ½ – 11 ½' | |
| **Temperature Range*** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing | |
| **Degree of Protection** | IP54 | |
| **Applicable Directives** | R&TTE 1999 / 5 / EC<br>LVD 2006 / 95 / EC<br>MD 2006 / 42 / EC<br>ROHS 2 2011 / 65 / EU | |

| | |
|---|---|
| **Dimension** | 10 ⅜" (W) × 2 ¼" (H) × 2 ¼" (D) |
| **Cable Length** | 10' |
| **Norm Conformity** | ISO 13849-1:2008 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)<br>IEC 61496-1:2012 ESPE Type 2 |

* LCD screen is operational from 14 to 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control.

## PRODUCT SERIES

| | |
|---|---|
| **10IXIODT1** | Dual-technology sensor for sliding doors |
| **10ICA** | IXIO ceiling accessory |
| **10IMB** | IXIO bracket accessory |
| **10URA** | Universal rain accessory |
| **10CDA** | IXIO curved door accessory |
| **10IXIOSPACER** | IXIO spacer (black) |
| **35.1286** | IXIO replacement cover (black) |
| **35.1302** | IXIO replacement cover (white) |
| **35.1303** | IXIO replacement cover (silver) |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **20.5359** | Wire harness (30') |
| **20.5302** | Optex-to-IXIO conversion harness |
| **70.0173** | IXIO wide antenna |
| **70.0182** | IXIO narrow antenna |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |

# IXIO-DT1 INDUSTRIAL

MOTION AND PRESENCE SENSOR FOR INTERIOR, INDUSTRIAL DOORS

### Energy Efficient
Ten microwave activation sensitivity settings and three infrared safety immunity settings

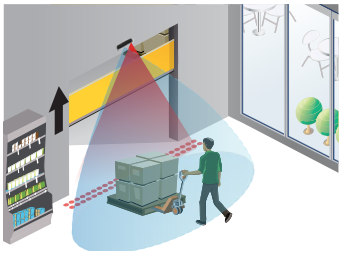
### Enhanced Accessibility
PRM mode for applications frequently used by persons with reduced mobility (e.g. wheelchair or elderly traffic)

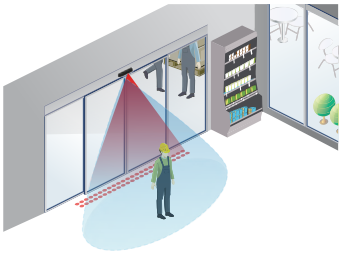
### Precise Presence Detection
Two 24-spot, high-density, infrared safety curtains providing precise presence detection

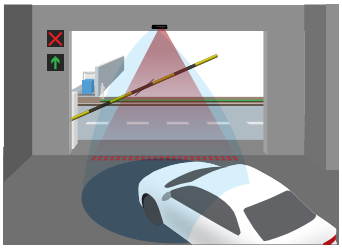
### Easily Adjustable
Four visible, red, alignment spots are projected on the ground to assist in precise IR curtain adjustment

### Ease of Setup
Intelligent programming and troubleshooting via a menu-driven LCD

### Standards Compliant
Fully monitored internally, capable of external monitoring







## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Detection Mode** | Motion<br>minimum detection speed: 2 in/s | Presence<br>typical response time: < 200 ms (max. 500 ms) |
| **Technology** | Microwave doppler radar<br>Transmitter frequency: 24.150 GHz<br>Transmitter radiated power: < 20 dBm EIRP<br>Transmitter power density: < 5 mW/cm | Active infrared with background analysis<br>Spot: 2" × 2" (typ)<br>Number of spots: max. 24 per curtain<br>Number of curtains: 2 |
| **Mounting Height** | 6 ½ – 11 ½'<br>local regulations may impact acceptable mounting height (pedestrian applications only) | |
| **Sensor Temperature Range** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing<br>LCD screen is operational from 14 – 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control. | |
| **Output** | | |
| Relay 1 | Electromechanical relay (potential and polarity free)<br>Max. contact current: 1 A<br>Max. contact voltage: 30 VAC<br>Adjustable hold time: 0.5 – 9 s | |
| Relay 2 | Solid-state relay (potential and polarity free)<br>Max. contact current: 100 mA<br>Max. contact voltage: 42 VDC / 30 VAC | |
| **Test / Monitoring Input** | Sensitivity:<br>Low: < 1 V<br>High: > 10 V (max. 30 V)<br>Response time on test request: typical < 5 ms | |
| **Supply Voltage** | 12 – 24 VAC ±10%; 12 – 30 VDC ±10%<br>(to be operated from SELV compatible power supplies only) | |
| **Power Consumption** | < 2.5 W | |
| **Noise** | < 70 dB | |
| **Degree of Protection** | IP54 | |
| **FCC Certification** | FCC: G9B-100606 IC: 4680A-100606 | |
| **Compliance** | ISO 13849 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) | |

## PRODUCT SERIES

| | |
|---|---|
| **10IXIODT1INDUS** | Dual-technology, industrial sensor utilizing microwave motion and active infrared presence sensor. *Includes 30' cable.* |
| **10ICA** | IXIO ceiling accessory |
| **10IMB** | IXIO bracket accessory |
| **10URA** | Universal rain accessory |
| **10CDA** | IXIO curved door accessory |
| **10IXIOSPACER** | IXIO spacer (black) |
| **35.1286** | IXIO replacement cover (black) |
| **35.1302** | IXIO replacement cover (white) |
| **35.1303** | IXIO replacement cover (silver) |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **20.5359** | Wire harness (30') |
| **20.5302** | Optex-to-IXIO conversion harness |
| **70.0173** | IXIO wide antenna |
| **70.0182** | IXIO narrow antenna |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |

# IXIO-DT1V

MOTION AND PRESENCE SENSOR WITH CAMERA
FOR AUTOMATIC, SLIDING DOORS

### Additional Camera Functionality
Provides an SDTV camera that shoots 30 frames of footage per second

### Easily Integrates
Integrates with building surveillance systems

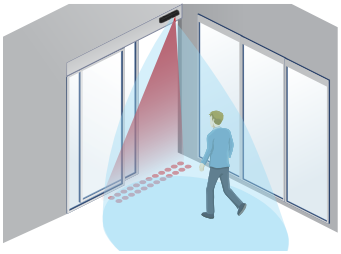
### Upgrade IXIO In the Field
Video replacement kit available to upgrade any IXIO in the field

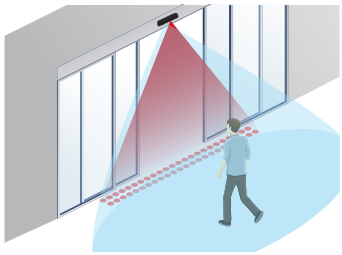
### Energy Efficient
Ten microwave, activation sensitivity settings and three infrared safety immunity settings

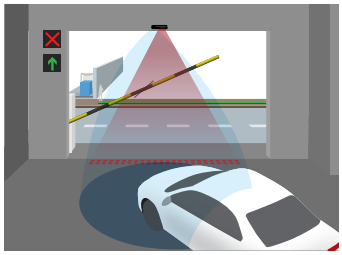
### Enhanced Accessibility
PRM mode for applications frequently used by persons with reduced mobility (e.g. wheelchair or elderly traffic)

### Precise Presence Detection
Two 24-spot, high-density, infrared safety curtains providing precise presence detection

### Standards Compliant
Fully monitored internally, capable of external monitoring







## TECHNICAL SPECIFICATIONS (SENSOR)

| | | |
|---|---|---|
| **Technology** | Microwave Doppler radar | Active infrared |
| **Detection Mode** | Motion | Presence |
| **Transmitter Frequency** | 24.150 GHz | N/A |
| **Transmitter Radiated Power** | < 20 dBm EIRP | N/A |
| **Transmitter Power Density** | < 5 mW / cm² | N/A |
| **Spot Size** | N/A | 2" × 2" |
| **Max. Number of Spots** | N/A | 24 per curtain |
| **Max. Number of Curtains** | N/A | 2 |
| **Output** | Electro-mechanical-relay (potential and polarity free) | Solid-state-relay (potential and polarity free) |
| Max. Contact Voltage | 30 VDC | 42 VAC/VDC |
| Max. Contact Current | 1 A | 400 mA |
| Hold Time | 0.5 – 9 s (user adjustable) | 0.3 – 1 s |
| **Test Input** | | |
| Sensitivity | Low: < 1 V; High: > 10 V (max. 30 V) | |
| Response time on test request: | < 5 ms (typical) | |
| **Supply Voltage*** | 12 – 24 VAC ±10%; 12 – 30 VDC ±10% | |
| **Power Consumption** | < 2.5 W | |
| **Mounting Height** | 6 ½ – 11 ½' | |
| **Temperature Range**** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing | |
| **Degree of Protection** | IP54 | |
| **Norm Conformity** | R&TTE 1999 / 5 / EC<br>LVD 2006 / 95 / EC | MD 2006 / 42 / EC<br>ROHS 2 2011 / 65 / EU |
| **Dimension** | 10 ⅗" (W) × 2 ¼" (H) × 2 ¼" (D) | |
| **Cable Length** | 10' | |

* To be operated from SELV-compatible power supplies only

** LCD screen is operational from 14 to 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control.

## TECHNICAL SPECIFICATIONS (CAMERA)

| | |
|---|---|
| **Voltage Regulator** | 6.6 – 36 VDC ±10%, 6 – 28 VAC ±10% |
| **Operating Temperature** | -22 – 140 °F (max. RH: 95%) |
| **Video Output** | 1.0 (Vp-p) / 75Ω |
| **Image Sensor** | CMOS |
| **Horizontal Resolution** | 480 TVL |
| **NTSC Output** | 720 (H) × 480 (W) |
| **Sync System** | Inter-Sync |
| **Frame Rate** | 30 fps |
| **Minimum Illumination** | 0.01 LUX |
| **AE Control** | Auto |
| **Gain Control** | Auto |
| **Electronic Shutter** | 1 s ~ 1/10,000 s |
| **S/N Ratio** | > 50 dB |
| **AWB** | Auto |

## PRODUCT SERIES

| | |
|---|---|
| **10IXIODT1V** | IXIO-DT1 with integrated video |
| **10IMB** | IXIO bracket accessory |
| **10CDA** | IXIO curved door accessory |
| **10IXIOSPACER** | IXIO spacer (black) |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **20.5359** | Wire harness (30') |
| **20.2009** | IXIO-DT1V camera harness and power supply (8') |
| **70.0173** | IXIO wide antenna |
| **70.0182** | IXIO narrow antenna |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10REMOTE** | Universal remote control for sensor setup |


AUTOMATIC DOOR - STAND CLEAR
LOOKING OUT
FOR YOU

# ULTIMO

## AUTOMATIC SLIDING DOOR SENSOR WITH EXTENDED / ENHANCED SAFETY

Extended Safety

Enhanced Safety

Easy Installation

Convenient Programming

Standards Compliant

READ MORE ON PAGE 50

# LZR®-WIDESCAN

MOTION, PRESENCE, AND SAFETY SENSOR FOR INDUSTRIAL DOORS

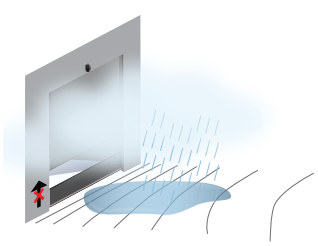
### Easy Setup
Utilize mobile app to easily configure sensor settings (available on the Apple App Store and Google Play Store)

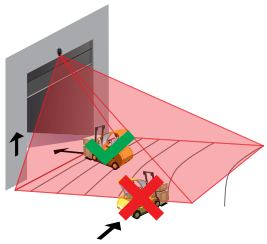
### Energy Efficient
Promotes energy savings by reducing false detections and unnecessary door cycling, helping to regulate HVAC

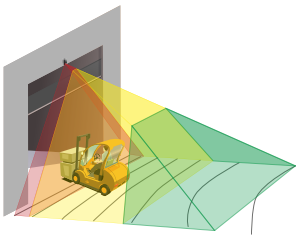
### Virtual Pull Cord
Virtual pull-cord function can differentiate between pedestrian and vehicle traffic and can provide pulse-on-stop activation

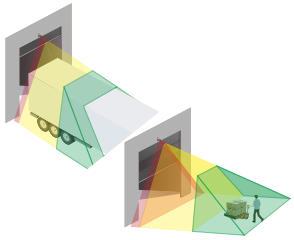
### Alternative Solution
Ideal for replacing costly and labor-intensive induction loop and pull-cord solutions

### Visible Spots
Two visible LASER alignment spots ensure accurate pattern placement









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement<br>(7 LASER curtains) |
| **Detection Mode** | Motion, presence, height, and speed |
| **Max. Detection Field** | Width: 1.2 x mounting height<br>Depth: 1.2 x mounting height<br>(adjustable depending on user settings) |
| **Thickness of First Curtain** | ¼" |
| **Typ. Mounting Height** | 6'6" – 32' |
| **Min. Reflectivity Factor** | > 2% (of floor and object)<br>(measured at max. 19'6" in safety field) |
| **Typ. Minimum Object Size** | 6" at 19'6" (in proportion to object distance) |
| **Testbody** | 27 ½" × 11 ¾" × 7 ¾" |
| **Emission Characteristics** | |
| IR LASER | Wavelength 905 nm; output power 0.10mW (CLASS 1) |
| Red Visible LASER | Wavelength 635 nm; output power 0.95mW (CLASS 2) |
| **Supply Voltage** | 12 – 24 VAC -10/+20%<br>12 – 30 VDC ±10% at sensor terminal |
| **Power Consumption** | < 2.5 W (heating = OFF) < 10 W, max 15 W (heating = ECO or AUTO) |
| **Response Time** | Typ. 230 ms;<br>Max. 800 ms (depending on immunity settings) |
| **Output** | 2 solid-state relays (galvanic isolation, polarity free)<br>24 VAC / 30 VDC (max. switching voltage)<br>100 mA (max. switching current)<br>- in switching mode: NO / NC<br>- in frequency mode: pulsed signal (f= 100 Hz ±10%)<br><br>1 electro-mechanic relay (galvanic isolation, polarity free)<br>42 VAC/VDC (max. switching voltage)<br>500 mA (max. switching current) |
| **Input** | 30 VDC (max. switching voltage)<br>low < 1 V<br>high > 10 V (voltage threshold) |
| **Bluetooth Communication** | Operating bandwidth: 2402 - 2480 MHz<br>Max. transmitted power: 12 dBm |

| | |
|---|---|
| **Dimensions** | 7 ¾" (H) × 6" (W) × 4" (D) (approx.) |
| **Materials / Color** | PC, ASA / Black |
| **Protection Degree** | NEMA 4 / IP65 |
| **Temperature Range** | -22 – 140 °F |
| **Rotation Angles on Bracket** | 45° to the right<br>15° to the left<br>(both directions lockable) |
| **Tilt Angles on Bracket** | -10 – 5° |
| **LED Activity** | 2 tri-colored LED: output status / remote control response / error signals<br>1 blue LED: Bluetooth status |
| **Compliance** | EN 300 328 V2.2.2, EN 301 489-1 V2.2.2, EN 301 489-17 V3.2.0, EN 60825-1:2014, EN 62311:2008; CSA/UL62368-1 |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRWIDESCAN** | Motion, presence, and safety sensor |
| **10WBA** | Universal mounting bracket |
| **10WBAMOUNT** | Universal mounting bracket plate |
| **10INDBRACKET** | Industrial mounting bracket<br>**ADAPTER PLATE KIT (10.1311) IS REQUIRED** |
| **10MINIBRACKET** | Short, adjustable mounting bracket |
| **10.1311** | Adapter plate kit |
| **35.1554** | 30' cable |
| **35.1555** | 50' cable |
| **41.8838** | LZR-WIDESCAN replacement base |
| **35.0245** | LZR-WIDESCAN replacement cover |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10REMOTE** | Universal remote control for sensor setup |

# ULTIMO

AUTOMATIC SLIDING DOOR SENSOR WITH
EXTENDED AND ENHANCED SAFETY

### Enhanced Safety

Positioning the inner, infrared safety curtain through the threshold allows for sustained presence detection in the door opening

When directed through the threshold, the inner, infrared safety curtain provides presence detection while the door is fully open and partial detection during the closing door cycle

### Easy Installation

Eight visible, red, alignment spots are projected onto the ground, verifying the location of the infrared curtains and helping to increase the accuracy of setup

Sensors automatically synchronize infrared frequency with ULTI-SYNC functionality, streamlining installation and retrofit applications*

### Convenient Programming

Easily define the microwave pattern shape, adjust the infrared curtain width, and review troubleshooting diagnostics via a menu-driven LCD

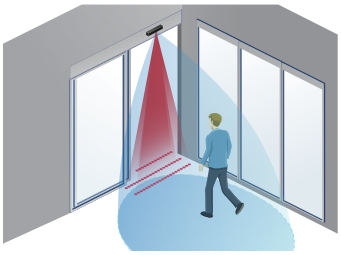
### Extended Safety

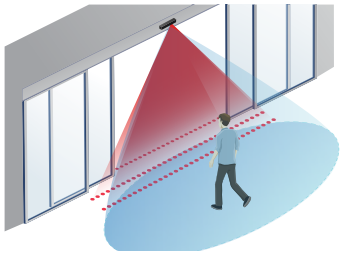
Three infrared curtains offer deeper and broader safety coverage in front of the door panels

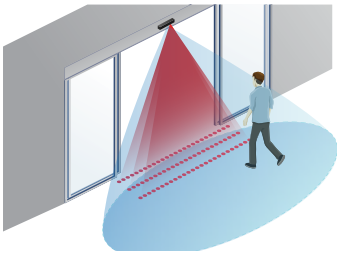
### Standards Compliant

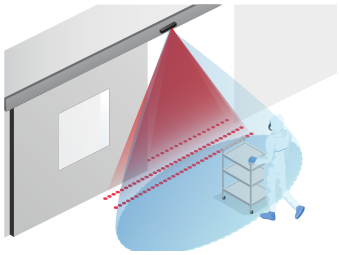
Fully monitored internally, capable of external monitoring complying with ANSI 156.10

** ULTI-SYNC is cross-compatible with BEA and other sliding door sensors on the market.*









## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Mounting Height** | 6'6" – 11'6" |
| **Detection Mode** | Motion and presence |
| **Technology** | Microwave Doppler radar and active infrared (AIR) with background analysis |
| **Radar Detection Speed (min)** | 2 in/s |
| **AIR Response Time (typ.)** | < 200 ms (max. 500 ms) |
| **Radar Transmitter** | |
| Frequency | 24.150 GHz |
| Radiated Power | < 20 dBM EIRP |
| Power Density | < 5 mW / cm² |
| Lobe Angles | 0 – 45° (typical adjustment), default 25° |
| **AIR Spots** | |
| Size | 2" × 2" (typ.) |
| Number of Spots | max. 32 per curtain |
| Number of Curtains | 3 |
| Curtain Angles | -3 – 11°, default 0° |
| **Relay Output 1** | Electro-mechanical-relay (potential and polarity free) |
| Max. Contact Voltage | 30 VDC |
| Max. Contact Current | 1 A |
| Hold Time | 0.5 – 9 s |
| **Optofet Output 2** | Solid-state-relay (potential and polarity free) |
| Max. Contact Voltage | 42 VAC/VDC |
| Max. Contact Current | 400 mA |
| Hold Time | 0.3 – 1 s |
| **Test / Monitoring Input** | |
| Sensitivity | Low: < 1 V; High: > 10 V (max. 30 V) |
| Response Time on Request | Typical: < 5 ms |
| **Supply Voltage** | 12 – 24 VAC ±10%<br>12 – 30 VDC ±10% |
| **Power Consumption** | < 3.2 W |
| **Temperature Range*** | -13 – 131 °F<br>0 – 95% relative humidity, non-condensing |
| **Cable Length / Gauge** | 10' / 26 AWG |
| **Degree of Protection** | IP54 |
| **Norm Conformity** | R&TTE 1999 / 5 / EC<br>MD 2006 / 42 / EC<br>LVD 2006 / 95 / EC<br>ROHS 2 2011 / 65 / EU |

* LCD screen is operational from 14 to 131 °F. The sensor may still be programmed in colder temperatures, but with the remote control.

## PRODUCT SERIES

| | |
|---|---|
| **10ULTIMO** | Dual-technology sensor for sliding doors |
| **10RETROFITSPACER** | Retrofit Spacer Kit (spacer, 2 ½" harness, 9" harness) |
| **10ULTIMOSPACER** | ULTIMO spacer |
| **10URA** | Universal rain accessory |
| **10UMB** | ULTIMO mounting bracket |
| **10.1351** | ULTIMO replacement cover |
| **20.5349** | IXIO / ULTIMO control harness (10') |
| **10REMOTE** | Universal remote control for sensor setup |

# LZR®-U920 / U921

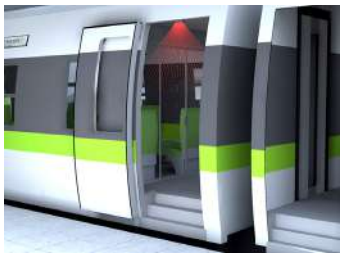
COMPACT, RAW DATA, LASER SCANNER

### Background Independent
Background or substrate has limited effect on measurements

### LASER-Based Measurements
Measurement range: up to 213 ft (65 m)

### Uni-Directional or Bi-Directional
Standard RS485 bus communication (bi-directional)

### Superior Object Recognition
No external illumination of target object necessary as compared to camera systems



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | LASER scanner, Time-of-Flight measurement |
| **Measurement Range** | 30' (10 m) at 2% remission factor<br>98' (30 m) at 10% remission factor<br>213' (65 m) max. |
| **Number of Points/Plane** | Max. 274 |
| **Number of Planes** | |
| LZR®-U920 | 4 |
| LZR®-U921 | 1 |
| **Angular Resolution** | Max. 0.3516° |
| **Angular Coverage** | Max. 96° |
| **Rotating Speed** | 900 turns / min |
| **Scanning Frequency** | |
| LZR®-U920 | 15 Hz |
| LZR®-U921 | 60 Hz |
| **Serial Communication** | |
| Type | Asynchronous |
| Interface | RS 485 |
| Communication Mode | Half-duplex (U920,U921) |
| Data Transmission Speed | 460800 bit / sec (max. 921600 bit / sec) |
| Topology | Point-to-point |
| Symbol Coding | 1 start bit, 1 stop bit, no parity bit |
| File Type | 8 bits |
| **Remission Factor** | > 2% |
| **Emission Characteristics** | |
| IR LASER | Wavelength 905 nm;<br>output power 0.10mW (CLASS 1) |
| Visible LASER | Wavelength 635 nm;<br>output power 0.95mW (CLASS 2) |
| **Peak Current at Power-on** | 1.8 A (max. 80 ms at 35 V) |
| **Supply Voltage** | 10 – 35 VDC at sensor side |
| **Power Consumption** | < 5 W |
| **Cable Length** | 10' |
| **LED Activity** | |
| Blue | Power-on status |
| Orange | Error status |
| Bi-colored (x2) | Function status |
| **Dimensions** | 5" (W) × 2 ¾" (H) × 3 ⅔" (D) |
| **Materials** | PC, ASA |
| **Color** | Black |

| | |
|---|---|
| **Degree of Protection** | NEMA 4 / IP65 |
| **Temperature Range** | -22 – 40 °F (-30 – 60 °C) if powered<br>14 – 140 °F (-10 – 60 °C) if unpowered |
| **Humidity** | 0 – 95% non-condensing |
| **Vibrations** | < 2 G |
| **Norm Conformity** | 2006 / 95 / EC: LVD<br>2011 / 65 / EU: RoHS 2<br>2004 / 108 / EC: EMC<br>EN 60529:2001<br>IEC 60825-1:2007 Laser Class 1&3R<br>EN 60950-1:2005<br>EN 61000-6-2:2005 EMC - Industrial level<br>EN 61000-6-3:2006 EMC - Commercial Level |

## PRODUCT SERIES

| | |
|---|---|
| **10LZRU920** | Bidirectional, four-curtain sensor |
| **10LZRU921** | Bidirectional, one-curtain sensor |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10PSVR5T** | Voltage regulator, 24 VAC / 24 VDC |

## LASER SCANNER FOR VIRTUAL LOOP APPLICATIONS

# LZR®-H100

BEA's LZR®-H100 is a LASER-based Time-of-Flight sensor designed for gate and barrier applications. This solution provides four LASER-based curtains, offering a three dimensional detection zone for accurate object detection. Its detection curtains are highly-configurable and can be set up for activation and presence detection in vehicle sensing applications.

The LZR-H100 is an effective alternative to induction loops and is housed in an IP65 rated enclosure, further ensuring its performance in outdoor environments.

READ MORE ON PAGE 30

**HIGH PRESICION PRESENCE**

**GROUND LOOP ALTERNATIVE**

**INDOOR / OUTDOOR INSTALLATION**

**TRAJECTORY DETECTION**

# BR2-900

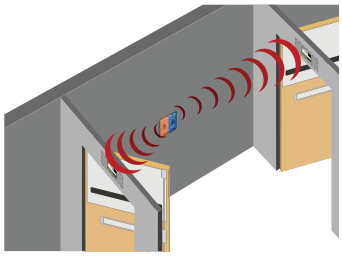
2-RELAY, LOGIC MODULE + 900 MHz, WIRELESS TECHNOLOGY


### Flexible
Sequenced or simultaneous relay activation for application flexibility

### Convenient
2 AMP relays allow the direct release of an electric locking device wirelessly, eliminating the need for a separate logic module or isolation relay

### Feature Rich
Extended Hold Mode allows wireless push plates to function like hardwired push plates (if push plate is held, relay does not time out)

### Saves Time and Money
Wireless functionality eliminates the need to run input wires directly to the logic module



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 12 – 24 VAC/VDC ±10% |
| **Current Consumption** | 45 mA DC<br>75 mA AC |
| **Frequency** | 908 – 918 MHz (frequency hooping) |
| **Emitted Radio Power** | -25 dBm (TX) |
| **Power Consumption** | 0.5 – 1.5 W |
| **Programmable Transmitters Per Receiver** | 75<br>(unlimited for 900 MHz Universal Transmitter) |
| **Temperature Rating** | -22 – 158 °F (-30 – 70 °C) |
| **Input** | |
| Day / Night (24 hr) | DRY contact |
| AUX | DRY contact |
| **Contact Rating** | Relay 1 DPDT / Relay 2 DPDT<br>2 A at 30 VDC or 2 A at 24 VAC |
| **LED Activity** | |
| Blue | Relay 1 activation |
| White | Relay 2 activation |
| Red | Radio frequency / Learn |
| Tri-color | Signal strength |
| **Certification** | FCC, IC |
| **Dimensions** | 5 ⅛" (W) × 1" (H) × 2 ⅛" (D) |
| **Housing** | ABS (white translucent) |

## PRODUCT SERIES

| | |
|---|---|
| **10BR2-900** | 2-relay logic module |
| **10TD900HH1** | Handheld transmitter, 900 MHz, 1-button (3-volt battery) |
| **10TD900HH2** | Handheld transmitter, 900 MHz, 2-button (3-volt battery) |
| **10TD900HH3** | Handheld transmitter, 900 MHz, 3-button (3-volt battery) |
| **10TD900HH4** | Handheld transmitter, 900 MHz, 4-button (3-volt battery) |
| **10TD900HH1U** | Universal, 900 MHz transmitter |
| **10T900PB** | Wired, 900 MHz transmitter with flag connector (2 AAA batteries) |
| **109TD900TR** | 900 MHz, touchless-retrofit transmitter |

# BR3-X

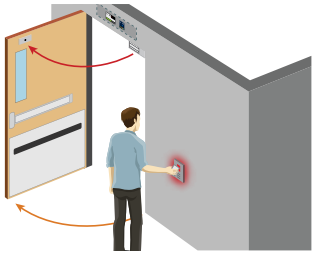
PROGRAMMABLE, 3-RELAY, LOGIC MODULE

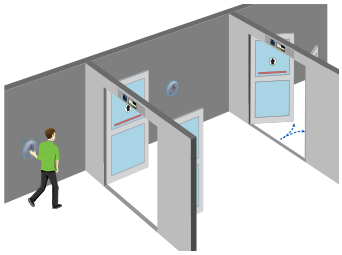

### Integrated Relays
Two 3 AMP relays and one 1 AMP relay, all with built-in surge suppression, eliminate the need for external components when installing some electric locking devices

### Customizable
Versatility with 13 programmable logic functions

### On-Board Power
WET output with AC/DC voltage for powering an electric locking device directly from the module

### Intuitive Programming
Two-button programming combined with dual seven-segment display provides simple setup





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 12 – 24 VAC/VDC ±10% |
| **Power Consumption** | 30 – 130 mA; DRY Output |
| **Temperature Range*** | -15 – 150 °F |
| **Dimensions** | 5 ⅕" (W) × 1" (H) × 2 ⅕" (D) |
| **Relay Hold Time** | Up to 60 seconds per relay |
| **Delay Between Relays** | Up to 60 seconds per relay with ¼, ½ and ¾ second options |
| **Housing Material** | ABS |
| **Input Specification** | |
| Inputs 1, 2, 3, 4 | DRY contact |
| WET Input | 5 – 24 VAC/VDC ±10% |
| **Contact Rating** | |
| Relay 1 (DRY) | 3 A at 24 VAC / 30 VDC |
| Relay 1 (WET) | 1 A |
| Relay 2 | 3 A at 24 VAC / 30 VDC |
| Relay 3 | 1 A at 24 VAC / 30 VDC |

* If powered by AC voltage and using WET output to convert to DC voltage and current draw of device is greater than 0.9 A, the upper temperature range is 130 °F.

## PRODUCT SERIES

| | |
|---|---|
| **10BR3X** | Programmable 3-relay logic module offering 13 functions, including day/night mode and normally locked and normally unlocked restroom modes |

***See page 103 for Restroom Kit and page 102 for Emergency Add-On Kit.***

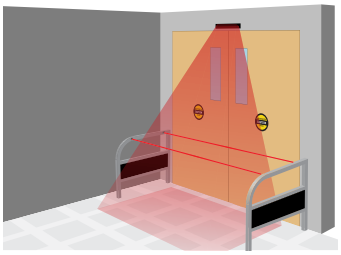
# LOCK-OUT MODULES

SWING-DOOR LOGIC USED WITH OVERHEAD PRESENCE SENSORS

**BODYGUARD-T Inhibition**
Used to inhibit header-mounted safety sensors (BODYGUARD-T) while door is in closing cycle

**Built-in Door Position Recognition**
Analyzes motor voltage

**Optional Safety Beam Input**
To override inhibit signal during door closing



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Power Supply** | 12 – 24 VAC / 15 – 24 VDC |
| **Operating Frequency** | 4 MHz (microprocessor) |
| **Power Consumption** | 10 mA at rest, 50 mA max. |
| **Output** | 2x SPST relays |
| **Max. Voltage - Relay Contact** | 60 VDC / 120 VAC |
| **Max. Current - Relay Contacts (both)** | 2 ADC, 0.5 AAC |

## PRODUCT SERIES

| | |
|---|---|
| **10LO21** | Lock-out relay |
| **10LO21P** | Universal lock-out relay for PARALLAX packages |
| **10LE21** | Low-energy lockout module |
| **15.0075** | Harness for LO21 and LO21P |

# MATRIX FAMILY

UL LISTED, LOOP DETECTORS

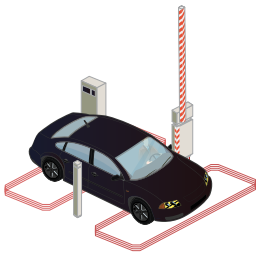
### Two Loop Models Available
Available in single- or dual-loop models

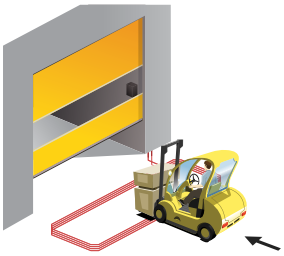
### Dual Outputs
Two relay outputs

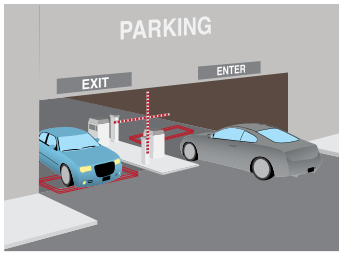
### Vehicle Detection, Direction, and Counting
Ideal for vehicle directionality and sequencing applications

### Easy to Adjust
Settings are adjusted via two ease-to-use potentiometers

### Feature Rich
Pulse-on-entry and pulse-on-exit presence detection








## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Tuning** | Automatic |
| **Connector** | 11-pin male (86CP11) |
| **Presence Time** | 1 min – infinity |
| **Pulse Time Output** | 100 ms or 500 ms |
| **LED Activity** | |
| Green | Power |
| Red | Loop Status 1 / Loop Status 2 |
| **Frequency Range** | 20 kHz – 130 kHz |
| **Frequency Steps** | |
| Single Loop | 4 |
| Double Loop | 2 (for each loop) |
| **Sensitivity (ΔL/L)** | 0.005 – 0.5% |
| **Reaction Time** | |
| Single Loop | 25 ms |
| Double Loop | 50 ms (each channel) |
| **Setup Time After Configuration** | 2 s max by channel |
| **Power Supply (depending on model)** | 12 – 24 VAC/VDC ±10%<br>115 VAC ±10% |
| **Power Frequency** | 48 – 62 Hz |
| **Power Consumption** | < 2.5 W |
| **Temperature Range** | -22 – 158 °F (-30 – 70 °C) |
| **Protections** | Loop insulation transformer<br>Zener diodes<br>Gas discharge clamping |
| **Inductance Range** | 20 – 1000 µH |
| **Connection** | 86CP11 (standard 11-pin, round) |
| **Relay Outputs** | 2 (free potential change-over contact) |
| Max. Contact Voltage | 230 VAC |
| Max. Contact Current | 5 A (resistive) |
| **Setup Time at Power On** | |
| MATRIXD/S | 8 s max by channel |
| MATRIXIIS | 8 s max by channel |
| MATRIX-3S | 1.6 s max by channel |
| MATRIX-3D | 2.2 s max by channel |

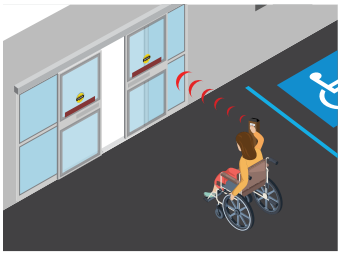
| | |
|---|---|
| **Norm Conformity** | R&TTE: 1999 / 5 / EC<br>EMC: 89 / 336 / EEC<br>EMC: 89 / 336 / EE<br>EMC: 2004 / 108 / EC<br>FCC: 47 CFR 15<br>IC: RSS-210 ISSUE 5<br>UL Listed equipment for UL508 |
| **Degree of Protection** | IP40 |
| **Weight** | 7 oz |
| **Dimensions** | 1 ½" (W) × 3" (H) × 3" (D) |

## PRODUCT SERIES

| | |
|---|---|
| **10MATRIXD110** | Dual-loop detector (110 – 120 VAC) |
| **10MATRIXD1224** | Dual-loop detector (12 – 24 VAC) |
| **10MATRIXIIS110** | Single-loop detector (110 – 120 VAC) |
| **10MATRIXIIS1224** | Single-loop detector (12 – 24 VAC) |
| **10MATRIX-3-D** | Dual-loop detector (12 – 24 VAC)<br>*socket NOT included* |
| **10MATRIX-3-S** | Single-loop detector (12 – 24 VAC)<br>*socket NOT included* |
| **10MATRIXHARN** | MATRIX harness, 11-pin, 72" (6') length |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10PSST242** | Plug-in power supply |
| **70.0262** | 11-pin, socket-based, DIN rail |

# 300 MHz FAMILY

300 MHz, WIRELESS TRANSMITTERS AND RECEIVERS



## TECHNICAL SPECIFICATIONS

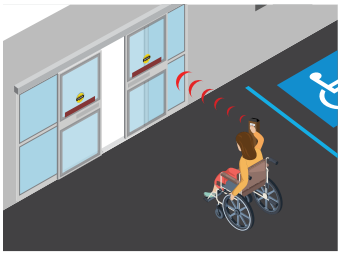
| | |
|---|---|
| **Frequency** | 300 MHz |
| **Radio Control Type** | Analog |
| **Input Voltage** | 24 VAC/VDC |
| **Operating Temperature** | 14 – 131 °F (-10 – 55 °C) |
| **Setup** | 10 DIP switch, access code programming |
| **Power** | |
| 10T300HHX | (1) 9-volt battery |
| 10T300KEYCHAIN | (1) 12-volt battery |
| 10T300MINIPB | (1) 12-volt battery |
| 10T300PB | (1) 9-volt battery |
| **Receiver Dimensions** | |
| Without Flange | 4 9⁄10" (L) × 3 1⁄5" (W) × 1 2⁄5" (H) |
| With Flange | 5 2⁄5" (L) × 3 1⁄5" (W) × 1 2⁄5" (H) |
| **Norm Conformity** | CE, FCC, IC |

## PRODUCT SERIES

| | |
|---|---|
| **10R300** | 300 MHz analog receiver |
| **10T300HH** | Handheld transmitter, 1-button (9-volt battery) |
| **10T300HHDBL** | Handheld transmitter, 2-button (9-volt battery) |
| **10T300HH4** | Handheld transmitter, 4-button (9-volt battery) |
| **10T300KEYCHAIN** | Keychain transmitter, 1-button (12-volt battery) |
| **10T300MINIPB** | Miniature, hardwired transmitter, 1-button (12-volt battery) |
| **10T300PB** | Wired transmitter, no case, with flag connectors (9-volt battery) |
| **70.0260** | Energizer battery, 12-volt |
| **70.0261** | Energizer battery, 9-volt |

# 433 MHz FAMILY

433 MHz, WIRELESS TRANSMITTERS AND RECEIVERS

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Frequency** | 433 MHz |
| **Radio Control Type** | Digital |
| **Emitted Radio Power** | -28.7 dBm (transmitter) |
| **Power Consumption** | 3mA (transmitter); 30mA (receiver) |
| **Power** | |
| Hardwire | 1 9-volt or 3-volt battery |
| Handheld | 1 3-volt battery |
| **Input Voltage** | 12 – 24 VAC/VDC (receiver) |
| **Contact Rating** | 1.0 A at 30 VDC<br>0.5 A at 125 VAC<br>0.3 A at 60 VDC |
| **Operating Temperature** | 14 – 131 °F (-10 – 55 °C) |
| **Capacity** | 100 programmed transmitters (per receiver) |
| **LED Activity** | |
| Red | Receiver/Transmitter learn |
| Blue | Relay activity |
| **Dimensions** | |
| Receiver | 2 ⅛" (W) × 1" (H) × 2 ¾" (D) |
| Transmitter | 1 ⅜" (W) × ⅗" (H) × 2 ¾" (D) |
| **Norm Conformity** | CE, FCC, IC |

## PRODUCT SERIES

| | |
|---|---|
| **10RD433** | 433 MHz analog receiver |
| **10RD433EH** | 433 MHz analog receiver with extended hold time |
| **10TD433HH1** | Handheld transmitter, 433 MHz, 1-button (3-volt battery) |
| **10TD433HH2** | Handheld transmitter, 433 MHz, 2-button (3-volt battery) |
| **10TD433HH3** | Handheld transmitter, 433 MHz, 3-button (3-volt battery) |
| **10TD433HH4** | Handheld transmitter, 433 MHz, 4-button (3-volt battery) |
| **10TD433PB3V** | Wired, 433 MHz transmitter with flag connector (3-volt battery) |
| **10TD433PB9V** | Wired, 433 MHz transmitter with flag connectors (9-volt battery) |
| **30.5124** | Lithium coin battery, 3-volt |
| **70.0261** | Energizer battery, 9-volt |

# 900 MHZ FAMILY

LONG-RANGE, WIRELESS TRANSMITTERS AND RECEIVER

### Signal Strength Indicator
Multi-color LEDs on receiver provide installer with visual notification of signal strength and activation status

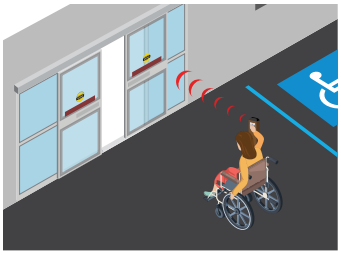
### Consistent Transmission
Frequency hopping allows consistent transmission in areas with other 900 MHz devices

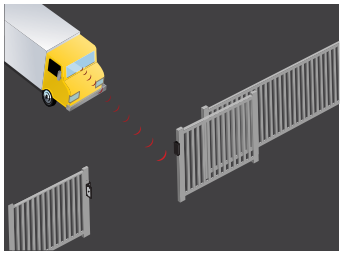
### Enhances Accessibility
Offers a means of activation for those with limited mobility or disabilities

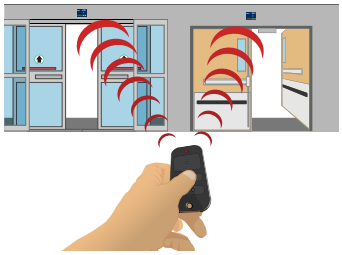
### Variety of Accessories
1, 2, 3, and 4 button handheld transmitters provide flexibility where multiple receivers are used

### Extended Hold Functionality
Extended hold and toggle/pulse functionality is integrated for various application needs

### Learn Modes
Delay and no-delay learn modes provide either instant or delayed activation for the sequencing of doors







## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Frequency** | 908 – 918 MHz (frequency hopping) | |
| **Radio Control Type** | Digital | |
| **Power Consumption** | | |
| Standard | 30mA (TX) / 40mA (RX) | |
| Industrial | 13mA (TX) / 40mA (RX) | |
| Retrofit | 22 mA | |
| Universal | 30mA | |
| **Supply Voltage** | 12 – 24 VAC/VDC | |
| **Contact Rating** | 1.0 A at 30 VDC<br>0.3 A at 60 VDC<br>0.5 A at 125 VAC | |
| **Operating Temperature** | 14 – 131 °F (-10 – 55 °C) | |
| **Transmitter Capacity (per receiver)** | | |
| Programmable (std) | 75 | |
| Universal | Unlimited | |
| **LED Activity** | Receivers:<br>Red = receiver learn<br>Blue = relay activation<br>Tri-color = signal strength | Transmitters:<br>Red = transmitting<br>Red Blinking = low battery |
| **Dimensions** | | |
| Transmitter | Standard Handheld: 2 ¾" (W) x 1 $^{19}/_{50}$" (D) x $^{14}/_{25}$" (H)<br>Standard Push-Plate Transmitter: 1 ¾" (W) x 1" (D) x $^{3}/_{10}$" (H)<br>Industrial Handheld: 1 ½" (W) x 3" (D) x ½" (H)<br>Retrofit: 1 $^{18}/_{25}$" (W) x 1 $^{3}/_{50}$" (D) x $^{8}/_{25}$" (H) | |
| Receiver | RD900: 2 ½" (W) x 2" (D) x ¾" (H) | |
| **Norm Conformity** | All: FCC, IC<br>Industrial Handheld: IP65 | |

## PRODUCT SERIES

| | |
|---|---|
| **10RD900** | 900 MHz receiver module |
| **10TD900HH1** | Handheld transmitter, 900 MHz, 1-button (3-volt battery) |
| **10TD900HH2** | Handheld transmitter, 900 MHz, 2-button (3-volt battery) |
| **10TD900HH3** | Handheld transmitter, 900 MHz, 3-button (3-volt battery) |
| **10TD900HH4** | Handheld transmitter, 900 MHz, 4-button (3-volt battery) |
| **10TD900HH1U** | Universal, 900 MHz transmitter |
| **10TD900INDHH1** | Handheld transmitter, 900 MHz, 1-button (NEMA 4 rated) |
| **10TD900INDHH2** | Handheld transmitter, 900 MHz, 2-button (NEMA 4 rated) |
| **10TD900INDHH3** | Handheld transmitter, 900 MHz, 3-button (NEMA 4 rated) |
| **10TD900INDHH4** | Handheld transmitter, 900 MHz, 4-button (NEMA 4 rated) |
| **10T900PB** | Wired, 900 MHz transmitter with flag connector (2 AAA batteries) |
| **109TD900TR** | 900 MHz, touchless-retrofit transmitter |
| **10BELTCLIP** | Belt clip compatible with the industrial, handheld transmitters |
| **30.5124** | Lithium coin battery, 3-volt |

## PLATES & ACCESSORIES

# PUSH PLATE FAMILY

### 4.5" ROUND


10PBR45

10PBR451


10PBR4510


10PBR45LL


10BOX45RNDFM


10BOX45RNDSM


10ESCUTCHEON45


10WRRND45

### 4.5" SQUARE


10PBS45

10PBS451


10PBS4510


10PBS45LL

10PBS451AL

10PBS45B

10PBS451B

10PBS45POD


10BOX45SQSM


10BOX45SQFM


10BOXDGSM

### 4.75" SQUARE


10PBS

10PBS1


10PBSLL


10PBS10

10PBSE

10PBS1B

10PBS1SB

10PBS1AL


10BOX475SQFM


10BOX475SQSM


10BOX475SQSMEBA


10BOXDG4H


10WRSQ475

### 4.75" VESTIBULE



10PBDGP1


10BOX475SQFM


10BOX475SQSM


10BOXDG4H


50.5016

*4.75" VESTIBULE FAMILY IS COMPATIBLE WITH BOLLARDS*

### 36" HIGH-LOW



10LPR36


10LPR36L

*LPR36 FAMILY IS COMPATIBLE WITH BOLLARDS*
**AVAILABLE IN HARDWIRED AND WIRELESS (900, 433 OR 300 MHZ) MODELS.*

### 6" ROUND




10PBR



10PBR1


10PBR10



10PBR1AL


10PBRLL


10BOX6RNDFM


10BOX6RNDSM


10ESCUTCHEON


10WRRND6

### 6" SQUARE




10PBS6



10PBS61


10PBS610


10PBS6LL


10BOX6SQFM


10BOX6SQSM

### SINGLE GANG (2.75" x 4.5")




10PBO241


10PBO2410


10PBO241L



10PBO241E


10BOX24SGSM

### JAMB (1.5" x 4.75")



10PBJ


10PBJ1*


10PBJ10


10PBJL*


10PBJE



10PBJSREV


10PBJ1B

*CHERRY SWITCH VERSIONS SHOWN*
**ALSO AVAILABLE IN HARDWIRED AND MICROSWITCH VERSIONS*


10BOXJAMBFM


10BOXJAMBSM

### BOLLARDS


10BOLLARDBRZ


10BOLLARDBRZ


10BOLLARDBRZ

*ALSO AVAILABLE WITHOUT HOLE*


# 4 ½" ROUND AND SQUARE PUSH PLATES

STAINLESS STEEL ACTUATORS

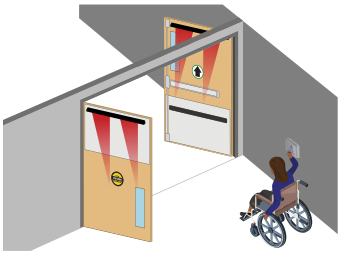
**Robust Design**
1/16 inch thick stainless steel for maximum durability

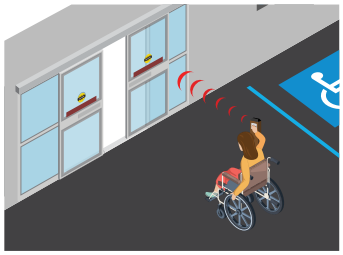
**Vandal Resistant**
Concealed fasteners to minimize vandalism

**Available in Complete Kits**
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

**Enhances Accessibility**
ADA-compliant push plates are available in a variety of popular faceplate graphic options

**Highly Compatible and Customizable**
Compatible with both surface- and flush-mount boxes; various text, graphic, and logo options available





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (⅛" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen head size: 5/64 |
| **Cherry Switch** | Single-pole, 1 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |
| **Dimensions** | |
| Round | 4 ½" (W) × 31/50" (D) |
| Square | 4 ½" (W) × 4 ½" (H) × 31/50" (D) |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX45SQFM** | Flush-mount box (4 ½" square) |
| **10BOX45SQSM** | Surface-mount box (4 ½" square) |
| **10BOX45RNDFM** | Flush-mount box (4 ½" round) |
| **10BOX45RNDSM** | Surface-mount box (4 ½" round) |
| **10ESCUTCHEON45** | Stainless steel mounting option, used in place of mounting box |
| **10WRRND45** | Weather ring (4 ½" round) |

## PRODUCT SERIES

| | |
|---|---|
| **10PBR45** | 4 ½" round, stainless steel plate with blue "Push to Open" text |
| **10PBR451** | 4 ½" round, stainless steel plate with blue accessibility logo and "Push to Open" text |
| **10PBR4510** | 4 ½" round, stainless steel, plain plate |
| **10PBR45LL** | 4 ½" round, stainless steel plate with blue accessibility logo |
| **10PBS45** | 4 ½" square, stainless steel plate with blue "Push to Open" text |
| **10PBS451** | 4 ½" square, stainless steel plate with blue accessibility logo and "Push to Open" text |
| **10PBS4510** | 4 ½" square, stainless steel, plain plate |
| **10PBS45LL** | 4 ½" square, stainless steel plate with blue accessibility logo |
| **10PBS45POD** | 4 ½" square, stainless steel plate with black "Press to Operate Door" text |
| **10PBS45B** | 4 ½" square, stainless steel plate with white "Push to Open" text |
| **10PBS451B** | 4 ½" square, stainless steel plate with white accessibility logo and "Push to Open" text |
| **10PBS451AL** | 4 ½" square, stainless steel plate with alternative, blue accessibility logo |

# 4 ¾" SQUARE PUSH PLATES

STAINLESS STEEL ACTUATORS

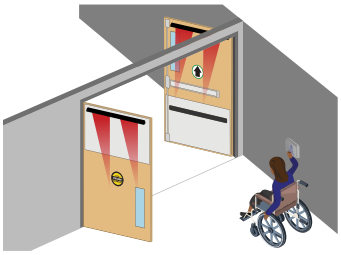

**Robust Design**
1/16 inch thick stainless steel for maximum durability

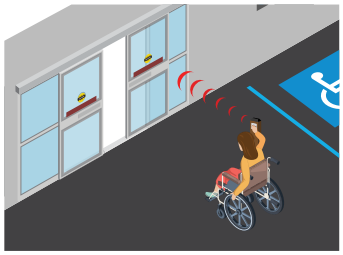
**Vandal Resistant**
Concealed fasteners to minimize vandalism

**Available in Complete Kits**
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

**Enhances Accessibility**
ADA-compliant push plates are available in a variety of popular faceplate graphic options

**Highly Compatible and Customizable**
Compatible with both surface- and flush-mount boxes; various text, graphic, and logo options available





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (⅛" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen head size: 5/64 |
| **Cherry Switch** | Single-pole, 1 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX475SQSMEBA** | Surface-mount box (4 ¾" square) with easy battery access |
| **10BOX475SQFM** | Flush-mount box (4 ¾" square) |
| **10BOX475SQSM** | Surface-mount box (4 ¾" square) |
| **10WRSQ475** | Weather ring (4 ¾" square) |

## PRODUCT SERIES

| | |
|---|---|
| **10PBS** | 4 ¾" square, stainless steel plate with blue "Push to Open" text |
| **10PBS1** | 4 ¾" square, stainless steel plate with blue accessibility logo and "Push to Open" text |
| **10PBS10** | 4 ¾" square, stainless steel, plain plate |
| **10PBSLL** | 4 ¾" square, stainless steel plate with blue accessibility logo |
| **10PBSE** | 4 ¾" square, stainless steel plate with blue "Push to Exit" text |
| **10PBS1B** | 4 ¾" square, stainless steel, blue plate with white accessibility logo and "Push to Open" text |
| **10PBS1SB** | 4 ¾" square, stainless steel plate (BHMA finish 606, satin brass) with blue accessibility logo and "Push to Open" text |
| **10PBS1AL** | 4 ¾" square, stainless steel plate with alternative, blue accessibility logo |
| **20.0044** | Screw kit for all 4 ¾" square plates include:<br>(2) #6 and (2) # 8 screws<br>(2) flag connectors<br>(1) hex key |
| **50.5016** | Adapter ring |


# 6" ROUND AND SQUARE PUSH PLATES

STAINLESS STEEL ACTUATORS

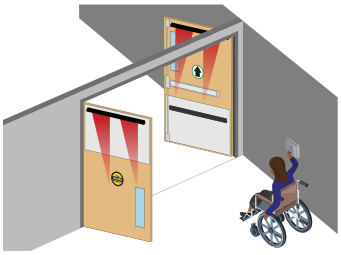
**Robust Design**
1/16 inch thick stainless steel for maximum durability

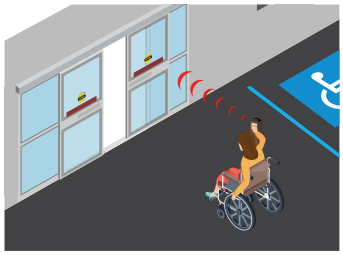
**Vandal Resistant**
Concealed fasteners to minimize vandalism

**Available in Complete Kits**
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

**Enhances Accessibility**
ADA-compliant push plates are available in a variety of popular faceplate graphic options

**Highly Compatible and Customizable**
Compatible with both surface- and flush-mount boxes; various text, graphic, and logo options available





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (⅛" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen head size: 5/64 |
| **Cherry Switch** | Single-pole, 1 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX6SQFM** | Flush-mount box (6" square) |
| **10BOX6SQSM** | Surface-mount box (6" square) |
| **10BOX6RNDFM** | Flush-mount box (6" round) |
| **10BOX6RNDSM** | Surface-mount box (6" round) |
| **10WRRND6** | Weather ring (6" round) |

## PRODUCT SERIES

| | |
|---|---|
| **10PBR** | 6" round, stainless steel plate with blue "Push to Open" text |
| **10PBR1** | 6" round, stainless steel plate with blue accessibility logo and "Push to Open" text |
| **10PBR10** | 6" round, stainless steel, plain plate |
| **10PBRLL** | 6" round, stainless steel plate with blue accessibility logo |
| **10PBR1AL** | 6" round, stainless steel plate with alternative, blue accessibility logo |
| **10PBS6** | 6" square, stainless steel plate with blue "Push to Open" text |
| **10PBS61** | 6" square, stainless steel plate with blue accessibility logo and "Push to Open" text |
| **10PBS610** | 6" square, stainless steel, plain plate |
| **10PBS6LL** | 6" square, stainless steel plate with blue accessibility logo |
| **20.0044** | Screw kit for all 4 ¾" square plates include:<br>(2) #6 and (2) # 8 screws<br>(2) flag connectors<br>(1) hex key |


# JAMB PUSH PLATES

STAINLESS STEEL ACTUATORS

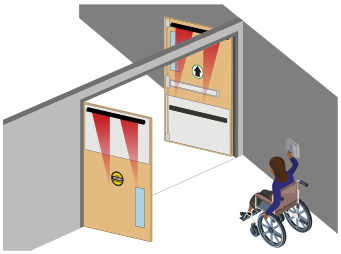
### Robust Design
1/16 inch thick stainless steel for maximum durability

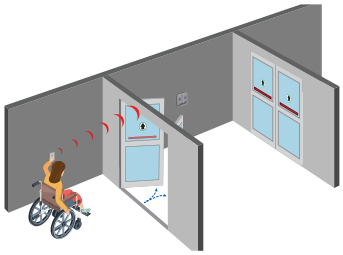
### Vandal Resistant
Concealed fasteners to minimize vandalism

### Available in Complete Kits
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

### Enhances Accessibility
ADA-compliant push plates are available in a variety of popular faceplate graphic options

### Highly Compatible and Customizable
Compatible with both surface- and flush-mount boxes; various text, graphic and logo options available





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (⅛" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen Head Size: 5/64 |
| **Cherry Switch** | Single-pole, 1 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |
| **Dimensions** | 1 ½" (W) × 4 ¾" (H) × 31/50" (D) |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOXJAMBFM** | Flush-mount, jamb box (1 ½" × 4 ¾" jamb) |
| **10BOXJAMBSM** | Surface-mount, jamb box (1 ½" × 4 ¾" jamb) |
| **10BOXJAMBST** | Surface-mount, jamb box - hardwired only (1 ¾" × 4 ½" jamb) *Compatible only with 10PBJMS series and MAGIC SWITCH jamb plates* |

***Be sure to match push plate dimensions with box dimensions - not all push plates are compatible with all mounting boxes.***

## PRODUCT SERIES

| | |
|---|---|
| **10PBJ** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue "Push to Open" text |
| **10PBJ1** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue accessibility logo and "Push to Open" text |
| **10PBJ10** | 1 ½" × 4 ¾" jamb, stainless steel, plain push plate |
| **10PBJL** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue accessibility logo |
| **10PBJE** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue "Push to Exit" text |
| **10PBJ1B** | 1 ½" × 4 ¾" jamb, stainless steel, blue push plate with white accessibility logo and "Push to Open" text |
| **10PBJM1** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue accessibility logo and "Push to Open" text<br>*Includes microswitch with 2-stud touch points* |
| **10PBJML** | 1 ½" × 4 ¾" jamb, stainless steel push plate with blue accessibility logo<br>*Includes microswitch with 2-stud touch points* |
| **10PBJMSLL** | 1 ¾" × 4 ½" jamb, stainless steel push plate with blue accessibility logo<br>*Includes microswitch with 2-stud touch points* |
| **10PBJMS1** | 1 ¾" × 4 ½" jamb, stainless steel push plate with blue accessibility logo and "Push to Open" text<br>*Includes microswitch with 2-stud touch points* |
| **10PBJSREV** | 1 ¾" × 4 ½" jamb, stainless steel push plate with "Push to Slow" text with braille |


# LPR36 PUSH PLATE

FULL LENGTH, 36 INCH, HIGH-LOW ACTUATOR

### Enhances Accessibility
Offers a mean of activation of automatic doors for those with limited mobility or disabilities

### Low Profile, Aesthetically Pleasing Design
Low-profile (1 inch deep) design helps prevent accidental damage in high traffic areas

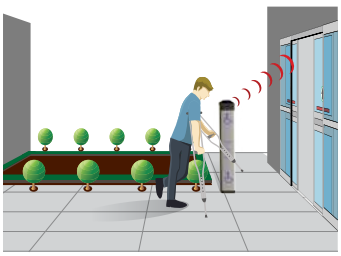
### Standard Compliant, High-Accessibility Plate
Exceeds California Building Code 2013, Page 559, 11B-404.2.9, Exception 2c

### Versatile Mounting
Easily installs on either walls or bollards for maximum mounting flexibility

### Easily Converts to Wireless
Available with convenient, built-in, wireless transmitter (300, 433, or 900 MHz frequencies) for wireless activation applications

### Full-Length Activation
Activation area of 36 by 6 inches (216 square inches)

*Not recommended for use in an environment where it will be directly exposed to water (e.g. outdoor, not protected from direct rain).*



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Contact Configurations** | SPST N.O. |
| **Switching Voltage** | < 50 VDC |
| **Switching Capacity** | 1 Watt |
| **Switching Current** | < 100 mA DC |
| **Materials** | |
| Base | 6063 Aluminum |
| Face Plate | 304 Stainless steel |
| Switch Actuator | Nylon 66 |
| End Cap | UL94 ABS |
| Hardware | Stainless steel |
| **Operation Temperature** | -32 – 212 °F (-35 – 100 °C) |
| **Compliance** | California Building Code 2022, 11B-404.2.9, Exception C ANSI 156.10, 156.19, 156.27, 156.38 |

## PRODUCT SERIES

| | |
|---|---|
| **10LPR36-300** | 36" vertical, actuation bar with text and logo + 300 MHz Wireless |
| **10LPR36L-300** | 36" vertical, actuation bar with logo only + 300 MHz Wireless |
| **10LPR36-433** | 36" vertical, actuation bar with text and logo + 433 MHz Wireless |
| **10LPR36L-433** | 36" vertical, actuation bar with logo only + 433 MHz Wireless |
| **10LPR36-900** | 36" vertical, actuation bar with text and logo + 900 MHz Wireless |
| **10LPR36L-900** | 36" vertical, actuation bar with logo only + 900 MHz Wireless |
| **10LPR36-HW** | 36" vertical, actuation bar with text and logo (hardwired only) |
| **10LPR36L-HW** | 36" vertical, actuation bar with logo only (hardwired only) |
| **10LPRCAPKIT** | Top and bottom replacement caps for the LPR36 |
| **10R300** | 300 MHz analog receiver |
| **10RD433** | 433 MHz analog receiver |
| **10RD433EH** | 433 MHz analog receiver, extended hold time |
| **10RD900** | 900 MHz receiver module |
| **10WCK433*** | Wireless conversion kit, converts hardwired to 433 Wireless |
| **10WCK900*** | Wireless conversion kit, converts hardwired to 900 Wireless |

* Wireless conversion kit for transmitter replacement or conversion from hardwired to wireless

# PANTHER PUSH PLATES

PUSH PLATES WITH INTEGRATED WIRELESS TECHNOLOGY


### Wireless Compatibility
Reduces installation time by eliminating the need to run wires from the push plate or use additional mounting hardware

### Enhanced Accessibility
Offers a means of activation of automatic doors for these with limited mobility or disabilities

### Vandal Resistant
Concealed fasteners minimize vandalism

### Weather Rated
IP65-rated housing creates a weather-resistant barrier that enables the push plates to be mounted in outdoor environments or wash-down applications

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions** | |
| 6" Round | 6 ⅓" (ø) × 1 ⁹⁄₂₀" (D) |
| 4.75" Round | 5 ³⁄₂₅" (ø) × 1 ²¹⁄₅₀" (D) |
| 4.75" Square | 5 ³⁄₂₅" (W) × 5 ³⁄₂₅" (H) × 1 ²¹⁄₅₀" (D) |
| **Weight** | |
| 6" Round | 1.2 lbs |
| 4.75" Round | 1.14 lbs |
| 4.75" Square | 1.04 lbs |
| **Mounting Options** | Surface or bollard |
| **Transmitter Frequency*** | 433 MHz or 900 MHz** |
| **Power** | |
| 433 MHz | (1) 12 V type A23 |
| 900 MHz | (2) CR2032 |
| **Materials** | |
| Faceplate | Stainless steel (16 gauge, 304 2B) |
| Housing | ABS |
| **Degree of Protection** | IP65<br>FCC IC Part 15 Approved |

* Corresponding frequency receiver required.

** See 433 MHz and 900 MHz User's Guides for more information on BEA's wireless transmitters and receivers.

## PRODUCT SERIES

| | |
|---|---|
| **10EMR475** | 4 ¾" round, "Push to Open" text only; with integrated 433 MHz transmitter |
| **10EMR475-900** | 4 ¾" round, "Push to Open" text only; with integrated 900 MHz transmitter |
| **10EMR475L** | 4 ¾" round, accessibility logo only; with integrated 433 MHz transmitter |
| **10EMR475L-900** | 4 ¾" round, accessibility logo only; with integrated 900 MHz transmitter |
| **10EMR4751** | 4 ¾" round, "Push to Open" text and accessibility logo; with integrated 433 MHz transmitter |
| **10EMR4751-900** | 4 ¾" round, "Push to Open" text and accessibility logo; with integrated 900 MHz transmitter |
| **10EMR6** | 6" round, "Push to Open" text only; with integrated 433 MHz transmitter |
| **10EMR6-900** | 6" round, "Push to Open" text only; with integrated 900 MHz transmitter |
| **10EMR6L** | 6" round, accessibility logo only; with integrated 433 MHz transmitter |
| **10EMR6L-900** | 6" round, accessibility logo only; with integrated 900 MHz transmitter |
| **10EMR61** | 6" round, "Push to Open" text and accessibility logo; with integrated 433 MHz transmitter |
| **10EMR61-900** | 6" round, "Push to Open" text and accessibility logo; with integrated 900 MHz transmitter |
| **10EMS475** | 4 ¾" square, "Push to Open" text only; with integrated 433 MHz transmitter |
| **10EMS475-900** | 4 ¾" square, "Push to Open" text only; with integrated 900 MHz transmitter |
| **10EMS475L** | 4 ¾" square, accessibility logo only; with integrated 433 MHz transmitter |
| **10EMS475L-900** | 4 ¾" square, accessibility logo only; with integrated 900 MHz transmitter |
| **10EMS4751** | 4 ¾" square, "Push to Open" text and accessibility logo; with integrated 433 MHz transmitter |
| **10EMS4751-900** | 4 ¾" square, "Push to Open" text and accessibility logo; with integrated 900 MHz transmitter |
| **15.5039** | Spare PCB for PANTHER plate - 433 series |
| **15.5142** | Spare PCB for PANTHER plate - 900 series |

# SINGLE GANG PUSH PLATES

STAINLESS STEEL ACTUATORS

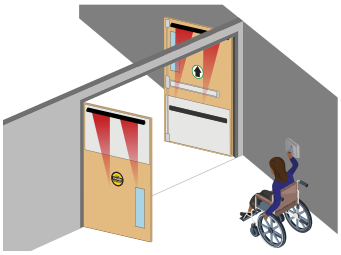

**Robust Design**
1/16 inch thick stainless steel for maximum durability

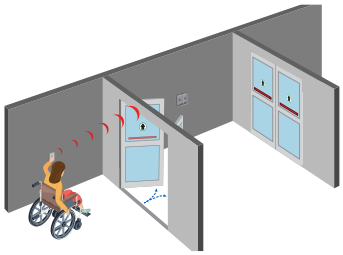
**Vandal Resistant**
Concealed fasteners to minimize vandalism

**Available in Complete Kits**
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

**Enhances Accessibility**
ADA-compliant push plates are available in a variety of popular faceplate graphic options

**Highly Compatible and Customizable**
Compatible with both surface- and flush-mount boxes; various text, graphic, and logo options available





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (1/8" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen head size: 5/64 |
| **Cherry Switch** | Single-pole, 15 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |

## PRODUCT SERIES

| | |
|---|---|
| **10PBO241** | Single-gang, stainless steel push plate with blue accessibility logo and "Push to Open" text |
| **10PBO2410** | Single-gang, stainless steel, plain push plate |
| **10PBO24L** | Single-gang, stainless steel push plate with blue accessibility logo |
| **10PBO24E** | Single-gang, stainless steel push plate with blue "Push to Open" text |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX24SGSM** | Standard single-gang, surface-mount box (2 3/4" × 4 1/2") |


# VESTIBULE PLATES

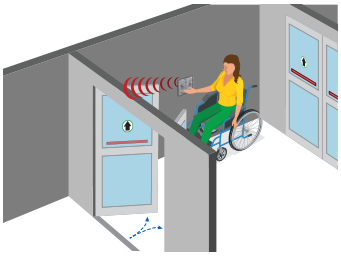
STAINLESS STEEL ACTUATORS

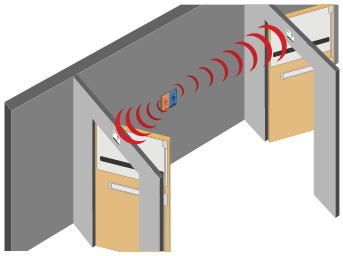
**Robust Design**
1/16 inch thick stainless steel for maximum durability

**Available in Complete Kits**
Complete kits available including plates, mounting boxes, and optional wireless devices for ease of ordering

**Vandal Resistant**
Concealed fasteners to minimize vandalism

**Enhances Accessibility**
ADA-compliant push plates are available in a variety of popular faceplate graphic options





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Faceplate Material** | Stainless steel (16 gauge, 304 2B) |
| **Backplate Material** | Aluminum (1/8" thick) |
| **Mounting Screws** | Stainless steel, 6-32 × 1" and 8-32 × 1"<br>Allen head size: 5/64 |
| **Cherry Switch** | Single-pole, 15 A, COM/NO/NC, UL Recognized |
| **Compatible Wireless Frequencies** | 900, 433, or 300 MHz |
| **Dimensions** | 4 3/4" (W) × 4 3/4" (H) × 31/50" (D) |

## PRODUCT SERIES

| | |
|---|---|
| **10PBDGP1** | Stainless steel dual Push Plate for vestibule includes:<br>One (1) adapter ring, two (2) separate Push Plates with "Push to Open" text and accessibility logo<br>*Requires two (2) 10TD433PB3V or two (2) 10TD900PB transmitters* |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX475SQSMEBA** | Surface-mount box (4 3/4" square) with easy battery access<br>*Adapter ring 50.5016 required* |
| **10BOX475SQSM** | Surface-mount box (4 3/4" square)<br>*Adapter ring 50.5016 required* |
| **10BOX475SQFM** | Flush-mount box (4 3/4" square)<br>*Adapter ring 50.5016 required* |
| **10BOXDGSM** | Surface-mount box, double gang<br>*Adapter ring 50.5016 required* |
| **10BOLLARD SERIES** | Bollard (see page 105) |
| **50.5016** | Adapter ring |

## HANDS-FREE DOOR ACTIVATION

# MAGIC SWITCH


## GO TOUCHLESS AT WAVETOOPEN.COM

A healthcare practitioner has her hands full. A person with limited mobility might run into challenges with accessibility. And others rather not touch public surfaces. As we run from point A to point B, we often don't think about opening doors. That is until we have to. Let's worry less and make door activation easier by the wave of a hand.

BEA's MAGIC SWITCH® Family provides a highly accessible and germ-free door activation without physical contact. Reduce touchpoints in fast-paced environments that depend on sanitation and hands-free access like healthcare, retail, industrial and commercial settings.

READ MORE ON PAGES 70 – 75

**HANDS-FREE ACTIVATION**

**DURABLE FACEPLATE**

**ADJUSTABLE DETECTION ZONE**

**ENVIRONMENTAL IMMUNITY**

**BATTERY-POWERED MODELS AVAILABLE**

# MS09

IP65 RATED, MICROWAVE, TOUCHLESS ACTUATOR


### Weather-Resistant Housing
IP65 enclosure capable of use in industrial and extreme environments, as well as wash-down facilities

### Adjustable Detection Zone
User-defined detection zone from 4 to 24 inches (pulse or toggle)

### Appropriate for All Environments
Can be used in a variety of indoor and outdoor applications

### No Mounting Accessories Needed
External mounting boxes are not required

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave motion sensor |
| **Detection Mode** | Motion (bidirectional) |
| **Detection Range*** | 4 – 24" (adjustable) |
| **Product Temperature Range** | -4 – 131 °F (-20 – 55 °C) |
| **Output Hold Time** | 0.5 s (in pulse mode) |
| **Supply Voltage**** | 12 – 24 VAC ±10%<br>12 – 24 VDC +30% / -10% |
| **Supply Frequency** | 50 – 60 Hz |
| **Radiated Frequency** | 24.125 GHz |
| **Radiated Power Density** | < 5 mW / cm² |
| **Power Consumption** | < 1.5 W |
| **Output**<br>Relay Contact Rating (Max. Voltage)<br>Relay Contact Rating (Max. Current)<br>Max. Switching Power | Relay with switch-over contact (voltage-free)<br>60 VDC / 125 VAC<br>1 A (resistive)<br>30 W (DC) / 60 VAC |
| **Cable Type** | Compatible with standard, 4-conductor low voltage cable<br>(cable not supplied) |
| **Dimensions** | 3.15" (W) × 3.23" (H) × 2.165" (D) |
| **Material / Color** | Enclosure: PC / White<br>Cable Gland: ASA |
| **Weight** | 0.5 lbs |
| **IP Rating** | IP65 |
| **Certification** | Electromagnetic compatibility (EMC) according to 2004/108/EC<br>FCC: G9B-210161<br>IC: 4680A-210161 |

* Detection range is dependent upon object size, object orientation, object speed, and environmental conditions

** To be operated from SELV-compatible power supplies only

## PRODUCT SERIES

| | |
|---|---|
| **10MS09TL** | Mmicrowave cell with single-gang, white faceplate (text and logo) |
| **10MS09L** | Microwave cell with single-gang, white faceplate (logo only) |
| **10RD900** | 900 MHz receiver module |
| **10TD900TR** | 900 MHz retrofit transmitter |

# MS31

MICROWAVE, TOUCHLESS ACTUATOR WITH
ADJUSTABLE RANGE AND RELAY HOLD TIME


### Adjustable Detection Zone
Detection zone from 4 to 24 inches (timed or toggle)

### Adjustable LED Setting
DIP switch position determines if LED illuminates when in detection or when not in detection

### Silent Activation
Silent activation for hospitals and other noise-sensitive environments

### Durable Design
IP54-rated enclosure for protection against outdoor weather and daily cleaning

### Various Faceplates Available
Available in black, gray, and white faceplate; options include jamb style, single gang, double gang, and 6 inch round

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Radiated Frequency | 24.125 GHz |
| Radiated Power Density | < 5 mW / cm² |
| **Detection Mode** | Motion (bidirectional) |
| **Detection Range** | 4 – 24" (adjustable) |
| **Output** | Relay with switch-over contact (voltage-free) |
| Max. Contact Voltage | 60 VDC / 125 VAC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Output Hold Time** | 0.5 – 30 s |
| **Supply Frequency** | 50 – 60 Hz |
| **Supply Voltage** | 12 – 24 VAC ±10%, 12 – 24 VDC +30% / -10% |
| **Power Consumption** | < 1.5 W |
| **Weight** | 0.34 lbs |
| **Materials** | PC, PE |
| **Temperature Range** | -4 – 131 °F (-20 – 55 °C) |
| **IP Rating** | IP54 |
| **Dimensions** | |
| Single Gang | 4 ½" (H) × 2 ¾" (W) × ¼" (T) |
| Jamb Plate | 4 ½" (H) × 1 ¾" (W) × ¼" (T) |
| Double Gang | 4 ½" (H) × 4 ½" (W) × ¼" (T) |
| Round Plate | 6" (D) × ¼" (T) |
| **Certification** | EMC: 2004 / 108 / EC<br>FCC: G9B-210161<br>IC: 4680A-210161 |

## PRODUCT SERIES

| | |
|---|---|
| **10MS31U-B** | Single gang and double gang faceplates kit (text and logo, black) |
| **10MS31U-G** | Single gang and double gang faceplates kit (text and logo, gray) |
| **10MS31U-W** | Single gang and double gang faceplates kit (text and logo, white) |
| **10MS31J-B** | Jamb faceplate kit (text and logo, black) |
| **10MS31J-G** | Jamb faceplate kit (text and logo, gray) |
| **10MS31J-W** | Jamb faceplate kit (text and logo, white) |
| **10MS31R-B** | 6" round faceplate kit (text and logo, black) |
| **10MS31R-G** | 6" round faceplate kit (text and logo, gray) |
| **10MS31R-W** | 6" round faceplate kit (text and logo, white) |
| **10RD900** | 900 MHz receiver module |
| **10TD900TR** | 900 MHz retrofit transmitter |
| **MS31CUSTOM** | MS31 kit with microwave cell and choice of accessibility logo or plain in any size/shape options |

***See next page for optional faceplate styles...***

## PRODUCT SERIES

| | |
|---|---|
| **70.5869** | Single gang faceplate (plain, black) |
| **70.5833** | Single gang faceplate (text and hand logo, black) |
| **70.5834** | Single gang faceplate (text and accessibility logo, black) |
| **70.5872** | Jamb faceplate (plain, black) |
| **70.5825** | Jamb faceplate (text and hand logo, black) |
| **70.5826** | Jamb faceplate (text and accessibility logo, black) |
| **70.5870** | Double gang faceplate (plain, black) |
| **70.5841** | Double gang faceplate (text and hand logo, black) |
| **70.5842** | Double gang faceplate (text and accessibility logo, black) |
| **70.5871** | 6" round faceplate (plain, black) |
| **70.5849** | 6" round faceplate (text and hand logo, black) |
| **70.5850** | 6" round faceplate (text and accessibility logo, black) |
| **70.5835** | Single gang faceplate (plain, gray) |
| **70.5836** | Single gang faceplate (text and hand logo, gray) |
| **70.5837** | Single gang faceplate (text and accessibility logo, gray) |
| **70.5827** | Jamb faceplate (plain, gray) |
| **70.5828** | Jamb faceplate (text and hand logo, gray) |
| **70.5829** | Jamb faceplate (text and accessibility logo, gray) |

| | |
|---|---|
| **70.5843** | Double gang faceplate (plain, gray) |
| **70.5844** | Double gang faceplate (text and hand logo, gray) |
| **70.5845** | Double gang faceplate (text and accessibility logo, gray) |
| **70.5851** | 6" round faceplate (plain, gray) |
| **70.5852** | 6" round faceplate (text and hand logo, gray) |
| **70.5853** | 6" round faceplate (text and accessibility logo, gray) |
| **70.5838** | Single gang faceplate (plain, white) |
| **70.5839** | Single gang faceplate (text and hand logo, white) |
| **70.5840** | Single gang faceplate (text and accessibility logo, white) |
| **70.5830** | Jamb faceplate (plain, white) |
| **70.5831** | Jamb faceplate (text and hand logo, white) |
| **70.5832** | Jamb faceplate (text and accessibility logo, white) |
| **70.5846** | Double gang faceplate (plain, white) |
| **70.5847** | Double gang faceplate (text and hand logo, white) |
| **70.5848** | Double gang faceplate (text and accessibility logo, white) |
| **70.5854** | 6" round faceplate (plain, white) |
| **70.5855** | 6" round faceplate (text and hand logo, white) |
| **70.5856** | 6" round faceplate (text and accessibility logo, white) |

***See page 76 for mounting options...***

## MS31 CUSTOM KIT (MS31CUSTOM + 70.XXXX)


**70.5872** **70.5825** **70.5826** **70.5827** **70.5828** **70.5829** **70.5830** **70.5831** **70.5832**

**70.5869** **70.5833** **70.5833** **70.5835** **70.5636** **70.5637** **70.5838** **70.5839** **70.5840**

**70.5870** **70.5841** **70.5842** **70.5843** **70.5844** **70.5845** **70.5846** **70.5847** **70.5848**

**70.5871** **70.5849** **70.5850** **70.5851** **70.5852** **70.5853** **70.5854** **70.5855** **70.5856**

# MS41

STAINLESS STEEL, TOUCHLESS ACTUATOR WITH ADJUSTABLE RANGE AND RELAY HOLD TIME


### Durable Faceplate
Stainless steel faceplate increases durability and protection from daily cleaning

### Ideal For Harsh Environments
IP55-rated enclosure capable of use in industrial and extreme wash-down environments

### High Visibility
Animated- or static-illuminated ring allows for high-visibility in low light areas

### Adjustable Detection Zone
Adjustable sensing zone from 4 to 24 inches (timed or toggle)

### Activation Alerts
Adjustable, audible alert setting, including silent-mode required for hospitals and other noise-sensitive environments

### Adjustable Hold Time
Configurable output hold time of ½ to 30 seconds allowing unique, user-defined device placement

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Microwave Doppler radar |
| Radiated Frequency | 24.125 GHz |
| Radiated Power Density | < 5 mW/cm² |
| **Detection Mode** | Motion (bidirectional) |
| **Detection Range** | 4 – 24" (adjustable) |
| **Output** | Relay with switch-over contact (voltage-free) |
| Max. Contact Voltage | 60 VDC / 125 VAC |
| Max. Contact Current | 1A (resistive) |
| Max. Switching Power | 30 W (DC) / 60 VA (AC) |
| **Output Hold Time** | 0.5 – 30 s |
| **Supply Frequency** | 50 – 60 Hz |
| **Supply Voltage** | 12 – 24 VAC ±10%<br>12 – 24 VDC +30% / -10% |
| **Power Consumption** | < 1.5 W |
| **Wire Gauge** | 26 – 22 AWG |
| **Weight** | 0.34 lbs |
| **Material** | Stainless steel |
| **Temperature Range** | -4 – 131 °F |
| **IP Rating*** | IP55<br>*Apply silicone to achieve IP65* |
| **Dimensions** | |
| Single Gang | 4 ½" (H) × 2 ¾" (W) × 9/50" (T) |
| Jamb | 4 ½" (H) × 1 ¾" (W) × ¼" (T) |
| Double Gang | 4 ½" (H) × 4 ½" (W) × 9/50" (T) |
| Round | 6" (D) × 9/50" (T) |
| Cube | 2 1/16" (H) × 1 13/16" (W) × 1 ⅛" (T) |
| **Certification** | EMC: 2004 / 108 / EC<br>FCC: G9B-210161<br>IC: 4680A-210161 |

* See Users Guide.

*MS41 Single, Double, and Round adapter bracket 70.5236 is included in the box.*
*Adapter bracket can be used to replace a mud ring whose opening measures less than 2".*

## PRODUCT SERIES

| | |
|---|---|
| **10MS41-S** | Single gang, stainless steel faceplate (text and hand logo) |
| **10MS41-SA** | Single gang, stainless steel faceplate (text and accessibility logo) |
| **10MS41-SP** | Single gang, stainless steel faceplate (plain) |
| **10MS41-SPAL** | Single gang, stainless steel faceplate (accessibility logo) |
| **10MS41-SPHL** | Single gang, stainless steel faceplate (hand logo) |
| **10MS41-J** | Jamb, stainless steel faceplate (text and hand logo) |
| **10MS41-JA** | Jamb, stainless steel faceplate (text and accessibility logo) |
| **10MS41-JP** | Jamb, stainless steel faceplate (plain) |
| **10MS41-JPAL** | Jamb, stainless steel faceplate (accessibility logo) |
| **10MS41-JPHL** | Jamb, stainless steel faceplate (hand logo) |
| **10MS41-D** | Double gang, stainless steel faceplate (text and hand logo) |
| **10MS41-DA** | Double gang, stainless steel faceplate (text and accessibility logo) |
| **10MS41-DP** | Double gang, stainless steel faceplate (plain) |
| **10MS41-DPAL** | Double gang, stainless steel faceplate (accessibility logo) |
| **10MS41-DPHL** | Double gang, stainless steel faceplate (hand logo) |
| **10MS41-R** | 6" round, stainless steel faceplate (text and hand logo) |
| **10MS41-RA** | 6" round, stainless steel faceplate (text and accessibility logo) |
| **10MS41-RP** | 6" round, stainless steel faceplate (plain) |
| **10MS41-RPAL** | 6" round, stainless steel faceplate (accessibility logo) |
| **10MS41-RPHL** | 6" round, stainless steel faceplate (hand logo) |
| **10TD900TR** | 900 MHz retrofit transmitter |

***See page 76 for mounting options...***

# MS51

BATTERY-POWERED, TOUCHLESS ACTUATOR


### Best-in-Class Battery Life

3-year battery life provides uninterrupted operation in the field

### Reduce False Detections

Built-in redundant sensor ensures consistent detection in the event of environmental interference such as window pollution

Selectable immunity modes mitigate environmental disturbances such as rain, water spray, and snow

Advanced light-cancellation feature reduces false detections from direct sun and light in exposed areas

### Easy Installation & Setup

Quick push-plate retrofit reduces installation time and cost

Three-step process simplifies installers' time in the field

### Robust Construction

Stainless steel faceplate and IP65 rating for harsh environments

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared |
| number of IR sensors | 2 |
| **Detection Range** | 8" (20cm) max. |
| **Battery Life** | 3 years (at 150 activations per day) |
| **Product Temperature Range** | -22 – 158 °F (-30 – 70 °C) |
| **Output** | 1 electronic relay (galvanic isolatioon - polarity free) |
| max. switching voltage | 42 VAC/VDC |
| max. switching current | 100 ma |
| **Power Supply** | 3 VDC (2 AA batteries, each ~1.5 V max.) |
| **Power Consumption** | < 0.5 mW (when idle)<br>< 12 mW (upon activation) |
| **Wire Gauge** | 26-16 AWG |
| **Dimensions (overall)** | |
| Single Gang | 4 ½" (H) × 2 ¾" (W) × 1 ¼" (T) |
| Double Gang | 4 ½" (H) × 4 ½" (W) × 1 ¼" (T) |
| Round | 6" (H/W) × 1 ¼" (T) |
| Jamb | 4 ½" (H) × 1 ¾" (W) × 1 ¼" (T) |
| **Materials** | Stainless Steel 304 and PC |
| **Weight** | Single gang: 0.34 lb<br>Double gang: 0.55 lb<br>Round: 0.71 lb<br>Jamb: 0.29 lb |
| **IP Rating** | IP65 |

## PRODUCT SERIES

| | |
|---|---|
| **10MS51-S** | Actuator with single-gang plate |
| **10MS51-D** | Actuator with double-gang plate |
| **10MS51-R** | Actuator with round plate |
| **10MS51-J** | Actuator with jamb plate |
| **10MS51-SA** | Single gang, with text and accessibility logo |
| **10MS51-SAF** | Single gang, with French text and accessibility logo |
| **10MS51-SP** | Single gang, plain |
| **10MS51-ST** | Single gang, with text only |
| **10MS51-DA** | Double gang, with text and accessibility logo |
| **10MS51-DP** | Double gang, plain |
| **10MS51-DT** | Double gang, with text only |
| **10MS51-RA** | Round, with text and accessibiliity logo |
| **10MS51-RP** | Round, plain |
| **10MS51-RT** | Round, with text only |
| **10MS51-JA** | Jamb, with text and accessibility logo |
| **10MS51-JP** | Jamb, plain |
| **10MS51-JT** | Jamb, with text only |
| **10RD900** | 900 MHz receiver module |
| **10BR2-900** | 2-relay logic module |
| **10TD900PB** | 900 MHz hardwired transmitter |

***See page 76 for mounting options...***

# MS51W

BATTERY-POWERED, TOUCHLESS ACTUATOR WITH BUILT-IN, 900 MHZ TRANSMITTER


### Best-in-Class Battery Life

3-year battery life provides uninterrupted operation in the field*

### Built-in, Wireless Transmitter

Integrated 900 MHz transmitter reduces installation time**
900 MHz wireless technology provides greater line-of-sight transmission distance for reliable activation

### Easy Installation & Setup

Completely wireless solution reduces overall installation time and cost
Three-step process simplifies installers' time in the field

### Enhanced Performance Features

Built-in redundant sensor ensures consistent detection in the event of environmental interference such as window pollution
Selectable immunity modes mitigate envrionmental disturbances such as rain, water spray, and snow
Advanced light-cancellation feature reduces false detections from direct sun and light in exposed areas

### Robust Construction

Stainless steel faceplate and IP65 rating for harsh environments

** certain combinations of settings can affect maximum battery life*

*** corresponding wireless receiver sold separately*

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Active infrared |
| number of IR sensors | 2 |
| **Radio Control Type** | Digital |
| **Frequency** | 908 – 918 MHz (frequency hopping) |
| **Emitted Radio Power** | -25 dBm (transmitter) |
| **Detection Range** | |
| Long Range (default) | 12" (30.5cm) max.<br>(2 year maximum battery life, at 150 activations per day) |
| Short Range | 6" (15.24cm) max.<br>(3 year maximum battery life, at 150 activations per day) |
| **Product Temperature Range** | -22 – 158 °F (-30 – 70 °C) |
| **Power Supply** | 3 VDC (2 AA batteries, each ~1.5 V max.) |
| **Power Consumption** | < 0.5 mW (when idle)<br>< 12 mW (upon activation) |
| **Dimensions (overall)** | |
| Single Gang | 4 ½" (H) × 2 ¾" (W) × 1 ¼" (T) |
| Double Gang | 4 ½" (H) × 4 ½" (W) × 1 ¼" (T) |
| Round | 6" (H/W) × 1 ¼" (T) |
| Jamb | 4 ½" (H) × 1 ¾" (W) × 1 ¼" (T) |
| **Materials** | Stainless Steel 304 and PC |
| **Weight** | Single gang: 0.34 lb<br>Double gang: 0.55 lb<br>Round: 0.71 lb<br>Jamb: 0.29 lb |
| **IP Rating** | IP65 |
| **FCC Certification** | FCC: 2ABWS-10TD900PB<br>IC: 4680A-10TD900PB |

## PRODUCT SERIES

| | |
|---|---|
| **10MS51W-S** | Actuator with single-gang plate |
| **10MS51W-D** | Actuator with double-gang plate |
| **10MS51W-R** | Actuator with round plate |
| **10MS51W-J** | Actuator with jamb plate |
| **10MS51W-SA** | Single gang, with text and accessibility logo |
| **10MS51W-SAF** | Single gang, with French text and accessibility logo |
| **10MS51W-SP** | Single gang, plain |
| **10MS51W-ST** | Single gang, with text only |
| **10MS51W-DA** | Double gang, with text and accessibility logo |
| **10MS51W-DP** | Double gang, plain |
| **10MS51W-DT** | Double gang, with text only |
| **10MS51W-RA** | Round, with text and accessibiliity logo |
| **10MS51W-RP** | Round, plain |
| **10MS51W-RT** | Round, with text only |
| **10MS51W-JA** | Jamb, with text and accessibility logo |
| **10MS51W-JP** | Jamb, plain |
| **10MS51W-JT** | Jamb, with text only |
| **10RD900** | 900 MHz receiver module |
| **10BR2-900** | 2-relay logic module |

## ADDITIONAL OPTIONS

| | |
|---|---|
| **10MS51W-SKIT** | Kit includes:<br>(2) 10MS51W-S sensors<br>(2) 10MSBOXSGSM boxes<br>(1) 10RD900 receiver |
| **10MS51W-DKIT** | Kit includes:<br>(2) 10MS51W-D sensors<br>(2) 10MSBOXDGSM boxes<br>(1) 10RD900 receiver |

***See page 76 for mounting options...***

# MAGIC SWITCH MOUNTING BOXES

SURFACE-MOUNT BOXES FOR MAGIC SWITCH PRODUCTS

### MAGIC SWITCH Family Compatibility*

Surface-mount boxes compatible with all faceplate styles for MS31, MS41, MS51, and MS51W

### Ideal for Harsh Environments**

IP65-rated, capable for indoor and outdoor usage providing a water-resistant, dust tight enclosure

### Various Sizes Available

Available in single-gang, double-gang, round, and jamb sizes

### Practical Design

Surface-mount boxes work in places where it may not be practical to add a wall box

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions** | |
| Single Gang | 4 9/16" (H) × 2 13/16" (W) × 1 7/8" (D) |
| Double Gang | 4 17/32" (H) × 3" (W) × 1 7/16" (D) |
| Round | 6 1/32" (H/W) × 1 7/16" (T) |
| Jamb | 4 9/16" (H) × 1 13/16" (W) × 1 12/32" (D) |

** See Users Guide*

*** To achieve an IP65 rating, you must apply silicone to any drilled holes.*

## PRODUCT SERIES

| | |
|---|---|
| **10MSBOXSGSM** | Single-gang, surface-mount box for MAGIC SWITCH products |
| **10MSBOXDGSM** | Double-gang, surface-mount box for MAGIC SWITCH products |
| **10MSBOXRNDSM** | Round, surface-mount box for MAGIC SWITCH products |
| **10MSBOXJAMBSM** | Jamb, surface-mount box for MAGIC SWITCH products |


# MS51W ONE-BOX SOLUTIONS

Offering convenient kits for easy ordering, stocking and door automation. Kits include single gang or double gang faceplates, corresponding MAGIC SWITCH Surface-Mount Boxes and a 900 MHZ Wireless Receiver.

## WHAT'S INCLUDED

IP65


### MS51W S-KIT

- 2 Single-gang MS51W faceplates
- 2 MAGIC SWITCH SURFACE-MOUNT BOXES
- 1 900 MHz Receiver Module

IP65


### MS51W D-KIT

- 2 Double-gang MS51W faceplates
- 2 MAGIC SWITCH SURFACE-MOUNT BOXES
- 1 900 MHz Receiver Module

**LEARN MORE**

BEA-MS51.com

# ACCESS CONTROL PUSH BUTTON

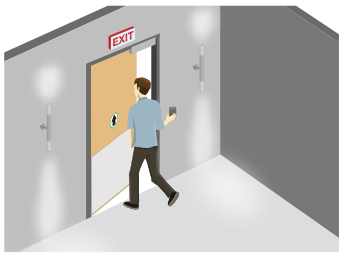
ILLUMINATED, REQUEST-TO-EXIT BUTTON

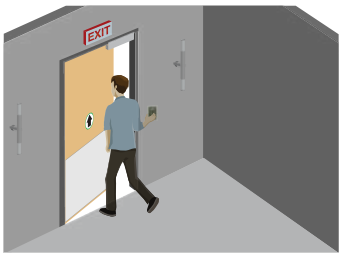

**Easier Light Bulb Replacement**
Easily replaced 12 to 24 VAC/VDC light bulb, reducing whole-product replacement

**Durable Faceplate**
Stainless steel faceplate

**Secure**
Vandal- and tamper-resistant design

**Reliable**
Tested to perform more than one million operations




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Switch** | |
| **Voltage Max.** | 125 / 250 VAC |
| **Current Max.** | 10 A |
| **Power Max.** | 373 W |
| **Electrical Configuration** | SPDT |
| **Bulb** | |
| **Input Voltage** | 28 VDC (14 VDC, optional) |
| **Current** | 16 mA ±10%, 12 V |

## PRODUCT SERIES

| | |
|---|---|
| **10ACPBSS1** | Single-gang push button, illuminated, "Push To Exit" |

# CABINET LOCK

80 LB ELECTROMAGNETIC LOCK

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Door Configuration** | Single / Cabinet, surface mount |
| **Holding Force** | 80 lbs |
| **Input Voltage** | 12 or 24 VDC |
| **Current Draw** | 100 mA at 12 VDC<br>50 mA at 24 VDC |
| **Dimensions** | 2 ¾" (W) × 1 $^{11}/_{50}$" (H) × $^{7}/_{10}$" (D) |
| **Magnet Weight** | 0.44 lbs |
| **Materials** | |
| Lock Housing | Aluminum |
| Armature Plate | Zinc-plated steel |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGLIFELOCK9** | Cabinet lock - single, 80 lb, 12 / 24 VDC |

c UL us LISTED

# DELAYED-EGRESS MAGLOCK KIT

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


**Door-Synchronizing Feature**
Double doors (2 single doors) can be synchronized

**Programmable Egress Time**
Authorized egress time programmable zero to 15 seconds

**Selectable Alarm**
Selectable, 30-second, door prop alarm

**Customizable LED Features**
LED color and flashes can be customized

**Input Features**
Monitored, fire-alarm input

**Triggering Options**
Delayed-Egress MAGLOCK can be triggered with pressure on the door or with a REX input (or disabled completely)

**Standards Compliant**
UL294 listed kit

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Housing Dimensions** | 10 53/64" (W) × 2 7/8" (H) × 2 1/8" (D) |
| **Armature Dimensions** | 7 7/16" (W) × 2 3/8" (H) × 5/8" (D) |
| **Voltage / Tolerance** | 12 – 24 VDC; ±10% |
| **Max. Power / Current Draw** | |
| Maglock and Sounder | 0.49 A / 12 VDC<br>0.24 A / 24 VDC |
| Low Voltage Supply Detection / Alarm | < 8 V |
| **Holding Force** | Up to 1200 lb |
| **Mortise Cylinder** | 1 1/8" cylinder with straight cam required, NOT INCLUDED<br><br>*Requires 10CYLINDERKA or 10CYLINDERKD* |
| **Operating Temperature** | 14 – 140 °F |
| **Norm Conformity** | UL / CUR Listed FWAX<br>Special locking arrangements |
| **Compliance Provisions** | IBC, SBC, UBC, BOCA, or NBC of Canada, NFPA 101 |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGDE1** | All-in-one Delayed Egress MAGLOCK Kit for single, out-swinging doors<br>UL / ULC listed, LED status, 12 / 24 VDC<br><br>Kit includes:<br>(1) 1200 lb MAGLOCK<br>(1) resettable KEYSWITCH<br>(mortise cylinder not included)<br>(1) external sounder<br>(1) alarm signage<br><br>**UL Listed MAGLOCKS require a UL Listed power supply** |
| **10CYLINDERKA** | 1 1/8" mortise cylinder,<br>Schlage C Keyway, keyed alike |
| **10CYLINDERKD** | 1 1/8" mortise cylinder,<br>Schlage C Keyway, keyed differently |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A)<br>*battery NOT included* |
| **50.0336** | Signage for 10MAGDE1<br>"Push until alarm sounds door can be opened within 15 seconds" |

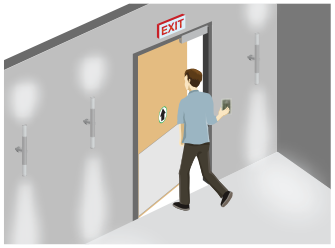
# ELECTRIC STRIKES

UL LISTED ELECTRIC STRIKES FOR US AND CANADA

### Modular Faceplate Options
Three modular faceplates for the most common door types: hollow metal, aluminum, and wood

### Standards Compliant
UL294 and UL1034 listed Universal Cylindrical and Rim Exit strikes

### Configurable
The non-handed, fully reversible design is field selectable to 12 or 24 VDC and field reversible with a fail-safe or fail-secure mode




### Durable
UL tested to 250,000 cycles, factory-tested to 1,000,000 cycles

### UL Listed
Universal Cylindrical strikes are rated to 1000 lbs static and 70 lbs dynamic (50 lbs dynamic for CUV model)

Rim Exit strikes are rated to 1500 lbs static and 70 dynamic

## TECHNICAL SPECIFICATIONS

| 10STRIKERE | | | |
|---|---|---|---|
| **Mode*** | Fail-safe | | |
| **Voltage** | 12 VAC/VDC | 24 VAC/VDC | 11 – 16 VAC |
| **Duty**** | Intermittent, Continuous | Intermittent, Continuous | Intermittent, Intermittent |
| **Amps***** | 0.30, 0.50 | 0.64, 0.24 | 0.32 – 0.50 |
| **Sound** | Buzz, silent | Buzz, silent | Buzz, buzz |
| **Static / Dynamic Strength** | 1500 lbs / 70 lbs | | |
| **Endurance** | 250,000 cycles (UL tested) | | |
| **Latch Throw** | ¾" | | |
| **Standards Compliance** | UL294, UL1034, UL and ULC listed | | |
| **10STRIKECU** | | | |
| **Mode*** | Fail-safe, Fail-secure | | |
| **Voltage** | 12 VDC | 24 VDC | 12 – 24 VAC |
| **Duty**** | Continuous | Continuous | Intermittent |
| **Amps***** | 0.375 | 0.190 | 0.280 – 0.565 |
| **Sound** | Silent | Silent | Buzz |
| **Static / Dynamic Strength** | 1000 lbs / 70 lbs | | |
| **Endurance** | 250,000 cycles (UL tested) | | |
| **Latch Throw** | ½" or ⅝" | | |
| **Standards Compliance** | UL294, UL1034, UL and ULC listed | | |

* Fail Safe – Lock or locking device that remains unlocked on loss of power
Fail Secure – Lock or locking device that remains locked on loss of power (also known as Non-Fail Safe (NFS))

** Intermittent Duty – Energized less than 1 minute with duty ratio 1:5
Continuous Duty – Energized 1 minute or more

*** Amp ratings are based on maximum current draw at 50 °F and include initial power-up current

## PRODUCT SERIES

| | |
|---|---|
| **10STRIKECU** | UL / ULC Listed, universal cylindrical, electric strike with three faceplates for aluminum, hollow metal, and wood frame installations |
| **10STRIKERE** | UL / ULC Listed, surface-mounted, electric strike for rim exit device |

SECURITY UL LISTED

# ELECTRIC STRIKES

UL LISTED ELECTRIC STRIKES FOR THE US MARKET

### Modular Faceplate Options
Three modular faceplates for the most common door types: hollow metal, aluminum, and wood

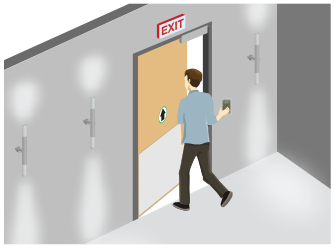
### Standards Compliant
UL294 and UL1034 listed Universal Cylindrical and Rim Exit strikes

### Configurable
The non-handed, fully reversible design is field selectable to 12 or 24 VDC and field reversible with a fail-safe or fail-secure mode

### Durable
UL tested to 250,000 cycles, factory-tested to 1,000,000 cycles

### UL Listed
Universal Cylindrical strikes are rated to 1000 lbs static and 70 lbs dynamic (50 lbs dynamic for CUV model)

Rim Exit strikes are rated to 1500 lbs static and 70 dynamic




## TECHNICAL SPECIFICATIONS

| 10STRIKEREREV12 / 10STRIKEREV34 | | |
|---|---|---|
| **Mode*** | Fail-safe, Fail-secure | |
| **Voltage** | 12 VDC | 24 VDC |
| **Duty**** | Continuous | Continuous |
| **Amps ***** | 0.540 | 0.270 |
| **Sound** | Silent | Silent |
| **Static / Dynamic Strength** | 1500 lbs / 70 lbs | |
| **Endurance** | 250,000 cycles (UL tested) / 1,000,000 cycles (factory tested) | |
| **Latch Throw** | ½" or ¾" | |
| **Standards Compliance** | UL294, UL1034, UL Listed | |
| **10STRIKECUV** | | |
| **Mode*** | Fail-safe, Fail-secure | |
| **Voltage** | 12 VDC | 24 VDC |
| **Duty**** | Continuous | Continuous |
| **Amps ***** | 0.300 | 0.150 |
| **Sound** | Silent | Silent |
| **Static / Dynamic Strength** | 1000 lbs / 70 lbs | |
| **Endurance** | 250,000 cycles (UL tested) / 1,000,000 cycles (factory tested) | |
| **Latch Throw** | 3/16" (15 mm max) | |
| **Standards Compliance** | UL294, UL1034, UL Listed | |

* Fail Safe – Lock or locking device that remains unlocked on loss of power
Fail Secure – Lock or locking device that remains locked on loss of power (also known as Non-Fail Safe (NFS))

** Intermittent Duty – Energized less than 1 minute with duty ratio 1:5
Continuous Duty – Energized 1 minute or more

*** Amp ratings are based on maximum current draw at 50 °F and include initial power-up current

## PRODUCT SERIES

| | |
|---|---|
| **10STRIKECUV** | UL Listed, universal cylindrical, electric strike |
| **10STRIKEREV12** | UL Listed, rim exit electric strike (½") |
| **10STRIKEREV34** | UL Listed, rim exit electric strike (¾") |

# KEYSWITCHES

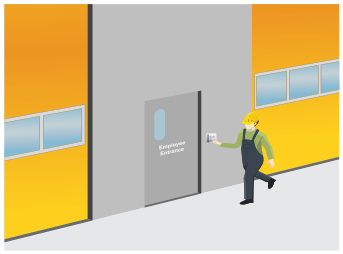
ACCESS-CONTROL SWITCH PLATE


### Vandal Resistant
Aluminum, wall plate with tamper-resistant screws

### Multiple Plate Sizes
Available in jamb and single-gang wall plates or double-gang combo-plate

### Keyswitch Override
Combo plate allows for independent operation of the push plate and keyswitch, or allows the keyswitch to activate or disable the push plate

### Selectable Power Consumption
Capable of switching 6A at 124 VAC or 3A at 250 VAC




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Mechanical key access |
| **Faceplate Dimensions** | |
| Jamb | 1 ¾" (W) × 4 ¾" (H) × ¼" (D) |
| Single | 2 ½" (W) × 4 ¾" (H) × ¼" (D) |
| Combo-plate | 4 ½" (W) × 4 ½" (H) × ¼" (D) |
| **Visual Style (combo plate only)** | Accessibility symbol and "Push To Open" text |
| **Material** | Aluminum |
| **Switch Rating** | 6 A at 125 VAC or 3 A at 250 VAC |
| **Mortise Cylinder*** | 1 ⅛" cylinder with straight cam required |

* NOT INCLUDED – Requires part 10CYLINDERKA or 10CYLINDERKD

## PRODUCT SERIES

| | |
|---|---|
| **10KEYSWITCHONF** | Maintained keyswitch - single gang<br>3" × 4 ¾" × ½"<br>*Mortise cylinder not included* |
| **10KEYSWITCHMOM** | Momentary keyswitch - single gang<br>3" × 4 ¾" × ½"<br>*Mortise cylinder not included* |
| **10JAMBSWITCHONF** | Maintained keyswitch - jamb<br>1 ¾" × 4 ¾" × ½"<br>*Mortise cylinder not included* |
| **10JAMBSWITCHMOM** | Momentary keyswitch - jamb<br>1 ¾" × 4 ¾" × ½"<br>*Mortise cylinder not included* |
| **10COMBOPLATE** | Jamb push plate combined with maintained keyswitch on a double-gang faceplate<br>*Mortise cylinder not included* |
| **10COMBOPLATEMOM** | Jamb push plate combined with momentary keyswitch on a double-gang faceplate<br>*Mortise cylinder not included* |
| **10CYLINDERKA** | 1 ⅛" mortise cylinder,<br>Schlage C Keyway, keyed alike |
| **10CYLINDERKD** | 1 ⅛" mortise cylinder,<br>Schlage C Keyway, keyed differently |
| **20.2021** | ON / OFF switch for 10KEYSWITCHONF and 10JAMBSWITCHONF |
| **20.2020** | Momentary switch for 10KEYSWITCHMOM and 10JAMBSWITCHMOM |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOX24SGSM** | Standard single-gang, surface-mount box (2 ¾" × 4 ½") |
| **10BOXDGSM** | Surface-mount box, double gang |

# PIEZO BUTTON

HEAVY DUTY, PIEZOELECTRIC PUSH BUTTON

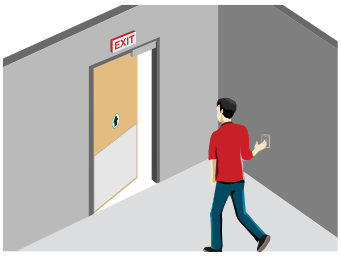

**Adjustable Hold Time**
1 to 40 seconds, user-adjustable output hold time

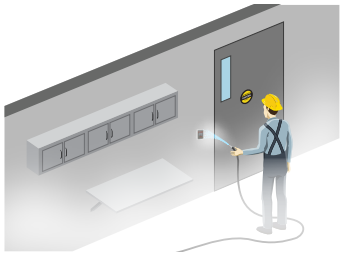
**Selectable Modes**
Can be configured to fail-safe or fail-secure

**NO or NC**
Can be wired normally open or normally closed

**Customizable Illumination**
LED illumination can be customized to user preference

**Vandal Resistant**
Vandal- and tamper-resistant design



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Piezoelectric |
| **Faceplate Dimensions** | |
| Single Gang | 2 ¾" (W) × 4 ½" (H) |
| **LED** | Illuminated red/green ring that signals activation (can also be disabled) |
| **Faceplate Material** | Stainless steel |
| **Hold Time Range** | 1 – 40 s (adjustable) |
| **Voltage Input** | 12 – 24 VDC (auto-sensing) |
| **Norm Conformity** | IP65 |

## PRODUCT SERIES

| | |
|---|---|
| **10PIEZO241** | Piezoelectric push button, single gang<br>"Push To Exit" text |
| **10BOX24SGSM** | Standard, single-gang, surface-mount box (2 ¾" × 4 ½") |

# PNEUMATIC PUSH BUTTONS

ACCESS CONTROL PUSH BUTTON WITH MECHANICAL-PNEUMATIC HOLD TIME

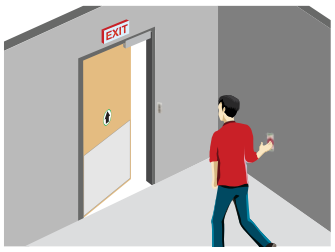

**Customizable**
Adjustable time delay of 2 to 60 seconds

**Standards Compliant**
Listed UL508 / CSA C22.2 No 14-10 with MET LABS, File #E113051

**Various Styles**
Buttons available in 1 ⅝ inch (standard) or 2 inch (large) sizes

**Meet Your Application Needs**
Available in a variety of combinations of color, text, and logo (upon request)

**Tested to Last**
Tested to perform greater than 1 million operations





## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Technology** | Pneumatic |
| **Faceplate Dimensions** | |
| Single | 2 ¾" (W) × 4 ½" (H) |
| Jamb | 1 ¾" (W) × 4 ½" (H) |
| **Visual Style** | Red button with "Push to Exit" text<br>Blue button with accessibility logo<br>Green button with "Push to Exit" text |
| **Materials** | |
| Faceplate | Stainless steel |
| Button | Colored, anodized aluminum |
| **Switch Rating** | 5 A at 125 VAC |
| **Time Range** | 2 – 60 s ±15%, adjustable |
| **Repeat Accuracy** | ±5% at 72 °F |
| **Operating Temperature** | -15 – 120 °F<br>*Rated for indoor use only* |
| **Timer Life** | 1,000,000 operations |

## PRODUCT SERIES

| | |
|---|---|
| **10ACPBDA1** | 2" jamb, red button, text only |
| **10ACPBDA2** | 2" single-gang, red button, text only |
| **10ACPBDA3** | 1 ⅝" jamb, red button, text only |
| **10ACPBDA4** | 1 ⅝" single-gang, red button, text only |
| **10ACPBDA5** | 2" jamb, blue button, logo only |
| **10ACPBDA6** | 2" single-gang, blue button, logo only |
| **10ACPBDA7** | 1 ⅝" jamb, blue button, logo only |
| **10ACPBDA8** | 1 ⅝" single-gang, blue button, logo only |
| **10ACPBDA9** | 2" jamb, green button, text only |
| **10ACPBDA10** | 2" single-gang, green button, text only |
| **10ACPBDA11** | 1 ⅝" jamb, green button, text only |
| **10ACPBDA12** | 1 ⅝" single-gang, green button, text only |

## MOUNTING OPTIONS

| | |
|---|---|
| **10BOXJAMBST** | Surface-mount, jamb box - hardwired only (1 ¾" × 4 ½" jamb) |
| **10BOX24SGSM** | Standard single-gang, surface-mount box (2 ¾" × 4 ½") |

# UL LISTED GATELOCKS

WEATHER-RESISTANT, ELECTROMAGNETIC LOCK

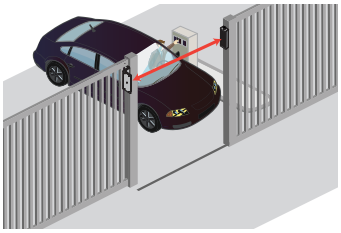
### Multiple Mounting Options
Available in front or side mount with a 1200 lb holding force

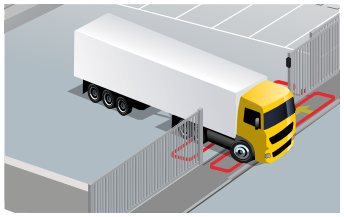
### Easy-to-Mount
Front-mount model comes with a ¾ inch male NPS threaded conduit fitting

### Lock Status Sensor
Built-in remote lock status sensor with an output relay

### Additional Protection
Built-in surge protection

### Withstands the Elements
Weather-resistant, stainless steel housing makes these locks suitable for outdoor applications





## TECHNICAL SPECIFICATIONS

| 10GL1200R | |
|---|---|
| **Door Configuration** | Sliding gate, front mount |
| **Holding Force** | 1200 lb |
| **Input Voltage** | 12 / 24 VDC (UL Listed power supply recommended) |
| **Current Draw** | 500 mA at 12 VDC<br>250 mA at 24 VDC |
| **Relay Switch** | 250 mA at 12 VDC<br>125 mA at 24 VDC |
| **Dimensions** | 8 ¾" (W) × 2 ½" (H) × 1 ⅝" (D) |
| **Material** | Stainless steel |
| **Sensor** | Lock status sensor with relay output |
| **Cable Specifications** | 24 AWG, 7-conductor cable, 3 ½' |
| **Norm Conformity** | UL and ULC<br>ANSI 156.10<br>NEMA 4 / IP65 |
| **Conduit Fitting (10GL1200R ONLY)** | ¾" NPS conduit fitting<br>14 threads per inch |
| **10GL1200SR** | |
| **Door Configuration** | Sliding door / gate, side mount |
| **Holding Force** | 1200 lb |
| **Input Voltage** | 12 / 24 VDC (UL Listed power supply recommended) |
| **Current Draw** | 500 mA at 12 VDC<br>250 mA at 24 VDC |
| **Relay Switch** | 250 mA at 12 VDC<br>125 mA at 24 VDC |
| **Dimensions** | 8 ¾" (W) × 2 ½" (H) × 1 ⅝" (D) |
| **Material** | Stainless steel |
| **Sensor** | Lock status sensor with relay output |
| **Cable Specifications** | 24 AWG, 7-conductor cable, 3 ½' |
| **Norm Conformity** | UL and ULC<br>ANSI 156.10<br>NEMA 4 / IP65 |

## PRODUCT SERIES

| | |
|---|---|
| **10GL1200R** | UL / ULC Listed, 12 / 24 VDC, front-mounted, 1200 lb |
| **10GL1200SR** | UL / ULC Listed, 12 / 24 VDC, side-mounted, 1200 lb |
| **10LZBRGATE1200** | (1) "L" bracket<br>(1) "Z" bracket |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A)<br>*battery NOT included* |

# SUPPORT & SERVICES

## WEBSITE

Our website sources a multitude of product material, technology breakdowns, contact and general info.

us.BEAsensors.com/en/

## BEA TOOLS

Tools at your fingertips. BEA has developed a collection of product-specific mobile apps and online tools to assist you before and during the installation process.

us.BEAsensors.com/en/BEA-tools/

## CONTINUED EDUCATION

BEA is a member of the American Association of Automatic Door Manufacturers (AAADM) and is listed as a certified trainer by AAADM. Additionally, our Sensor Integration School offers a comprehensive program designed to educate technicians on the integration of sensors and devices with automatic doors. BEA's highly trained staff are capable of providing the most effective and complete service possible.

us.BEAsensors.com/en/trainings/

## WEBINARS

BEA offers weekly online webinars on specific BEA products. Sign up to participate in a scheduled training or contact us to schedule a private webinar for your team.

us.BEAsensors.com/en/training/product-webinars/

## DOWNLOADS

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## EVENTS

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## YOUTUBE

At BEA Americas, our team is inspired and empowered to provide advanced sensor solutions which help to grow a safe and convenient automated world. We have taken an innovative approach to enhance customer support and engagement by creating a dedicated YouTube channel. Our videos provide customers and technicians with comprehensive guidance on our diverse range of products and solutions. From product showcases to technical troubleshooting, customers can conveniently access valuable information at their fingertips.

YouTube.com/user/BEAsensors/

# 1200LB MAGLOCKS

MAGLOCKS WITH ADJUSTABLE RELOCK TIME DELAY AND LOCK (BOND) STATUS SENSOR

### User-Configurable
Adjustable zero to 90 second relock time delay

### Enhanced Access Control / Monitoring
Lock (bond) status sensor with visible LED offers either normally open or normally closed output configurations

### UL 294 Listed*
Listed for access control systems and must be used with a UL Listed power supply

### Anti-Tampering
The security screw on the front face blocks access to the bottom of the elctromagnetic lock preventing tampering or dismounting

### Convenient Packages Available
Available in access control packages with sensor, logic module, actuator, and MAGLOCK

* This product is UL294-listed up to 1,000 lb static strength.



## TECHNICAL SPECIFICATIONS

| 10MAGLOCK1UL | |
|---|---|
| **Lock** | Single |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 500 mA at 12 VDC<br>250 mA at 24 VDC |
| **Dimensions** | 10 15/32" (W) × 2 7/8" (H) × 1 37/64" (D) |
| **Certification** | UL294 (up to 1,000 lb static strength)<br>File #BP10577 |
| **Operating Temperature** | 32 – 120 °F |
| **Operating Humidity** | 0 – 85% |
| **10MAGLOCK5UL** | |
| **Lock** | Double |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 500 mA at 12 VDC<br>250 mA at 24 VDC each |
| **Dimensions** | 21" (W) × 2 7/8" (H) × 1 37/64" (D) |
| **Certification** | UL294 (up to 1,000 lb static strength)<br>File #BP10577 |
| **Operating Temperature** | 32 – 120 °F |
| **Operating Humidity** | 0 – 85% |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGLOCK1UL** | 1,200 lb holding force / Single<br>UL Listed 294 @ 1,000 lb static force |
| **10MAGLOCK5UL** | 1,200 lb holding force / Double<br>UL Listed 294 @ 1,000 lb static force |
| **MAG5LZUL** | (2) "L" brackets, (2) "Z" brackets - *for single 1200 lb MAGLOCKS* |
| **10UBRACKETUL** | Bracket kit for mounting a MAGLOCK to a glass door up to ½" thick |
| **10FILLER12UL** | ½" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER14UL** | ¼" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER34UL** | ¾" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER58UL** | ⅝" × ¾" horizontal filler plate used to fill or extend door stops - *for single locks only* |
| **10RIMHOUSING1UL** | Provides a more aesthetically pleasing look over standard armature plates - *for single 1200 lb MAGLOCKS* |
| **10SPACER1UL** | Vertical "spacer bracket" used when the stop requires the MAGLOCK to be lowered - *for single 1200 lb MAGLOCKS* |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A) - *battery NOT included* |
| **50.0334** | Screw pack for 10MAGLOCK1UL |

***See page 95 for Access Control packages.***

# 1200LB MAGLOCKS WITH DS

MAGLOCKS WITH ADJUSTABLE RELOCK TIME DELAY, LOCK (BOND) STATUS SENSOR, AND DOOR STATUS SENSOR

### User-Configurable
Adjustable zero to 90 second relock time delay

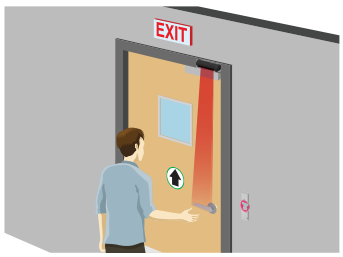
### Enhanced Access Control / Monitoring
Lock (bond) status sensor with visible LED offers either normally open or normally closed output configurations

### UL 294 Listed*
Listed for access control systems and must be used with a UL Listed power supply

### Anti-Tampering
The security screw on the front face blocks access to the bottom of the elctromagnetic lock preventing tampering or dismounting

### Convenient Packages Available
Available in access control packages with sensor, logic module, actuator, and MAGLOCK

* This product is UL294-listed up to 1,000 lb static strength.


## TECHNICAL SPECIFICATIONS

| 10MAGLOCK1ULDS | |
|---|---|
| **Lock** | Single |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 500 mA at 12 VDC<br>250 mA at 24 VDC |
| **Dimensions** | 10 15/32" (W) × 2 7/8" (H) × 1 37/64" (D) |
| **Certification** | UL294 (up to 1,000 lb static strength)<br>File #BP10577 |
| **Operating Temperature** | 32 – 120 °F |
| **Operating Humidity** | 0 – 85% |
| **10MAGLOCK5ULDS** | |
| **Lock** | Double |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 500 mA at 12 VDC<br>250 mA at 24 VDC each |
| **Dimensions** | 21" (W) × 2 7/8" (H) × 1 37/64" (D) |
| **Certification** | UL294 (up to 1,000 lb static strength)<br>File #BP10577 |
| **Operating Temperature** | 32 – 120 °F |
| **Operating Humidity** | 0 – 85% |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGLOCK1ULDS** | 1,200 lb holding force / Single<br>UL Listed 294 @ 1,000 lb static force |
| **10MAGLOCK5ULDS** | 1,200 lb holding force / Double<br>UL Listed 294 @ 1,000 lb static force |
| **MAG5LZUL** | (2) "L" brackets, (2) "Z" brackets - *for single 1200 lb MAGLOCKS* |
| **10UBRACKETUL** | Bracket kit for mounting a MAGLOCK to a glass door up to ½" thick |
| **10FILLER12UL** | ½" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER14UL** | ¼" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER34UL** | ¾" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER58UL** | ⅝" × ¾" horizontal filler plate used to fill or extend door stops |
| **10RIMHOUSING1UL** | Provides a more aesthetically pleasing look over standard armature plates - *for single 1200 lb MAGLOCKS* |
| **10SPACER1UL** | Vertical "spacer bracket" used when the stop requires the MAGLOCK to be lowered - *for single 1200 lb MAGLOCKS* |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A) - *battery NOT included* |
| **50.0340** | Cover plate ONLY with DS switch for 10MAGLOCK1ULDS |
| **50.0342** | Cover plate ONLY with DS switch for 10MAGLOCK5ULDS |
| **50.0334** | Screw pack for 10MAGLOCK1UL |

***See page 95 for Access Control packages.***

c UL us LISTED

# 600LB MAGLOCKS

MAGLOCKS WITH ADJUSTABLE RELOCK TIME DELAY AND LOCK (BOND) STATUS SENSOR


### Customizable
Adjustable zero to 90 second relock time delay

### Enhanced Reliability
Lock status sensor with visible LED offers either normally open or normally closed output configurations

### UL Listed
Input voltage of 12 / 24 VDC, must be used with UL Listed power supply

### Mounting Accessories
Variety of mounting hardware available

### Convenient Packages Available
Available in access control packages with request-to-exit sensor, logic module, actuator, power supply, and MAGLOCK



## TECHNICAL SPECIFICATIONS

| 10MAGLOCK3UL | |
|---|---|
| **Lock** | Single |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Reed Switch Rating** | SPDT 0.5 amp at 30 VAC / VDC resistive |
| **Power Consumption** | 505 mA × 2 at 12 VDC<br>260 mA × 2 at 24 VDC |
| **Dimensions** | 9 27/32" (W) × 1 21/32" (H) × 1" (D) |
| **Certification** | UL1034 |
| **Operating Temperature** | 14 – 131 °F |
| **Operating Humidity** | 0 – 95% |
| **10MAGLOCK6UL** | |
| **Lock** | Double |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Reed Switch Rating** | SPDT 0.5 amp at 30 VAC / VDC resistive |
| **Power Consumption** | 505 mA × 2 at 12 VDC<br>260 mA × 2 at 24 VDC |
| **Dimensions** | 19 3/4" (W) × 1 21/32" (H) × 1" (D) |
| **Certification** | UL1034 |
| **Operating Temperature** | 14 – 131 °F |
| **Operating Humidity** | 0 – 95% |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGLOCK3UL** | 600 lb holding force / Single<br>UL Listed 294 @ 500 lb static force |
| **10MAGLOCK6UL** | 600 lb holding force / Double<br>UL Listed 294 @ 500 lb static force |
| **MAG6LZUL** | (2) "L" brackets, (2) "Z" brackets - *for single 600 lb MAGLOCKS* |
| **10UBRACKETUL** | Bracket kit for mounting a MAGLOCK to a glass door up to ½" thick |
| **10FILLER12UL** | ½" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER14UL** | ¼" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER34UL** | ¾" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER58UL** | ⅝" × ¾" horizontal filler plate used to fill or extend door stops - *for single locks only* |
| **10RIMHOUSING3UL** | Provides a more aesthetically pleasing look over standard armature plates - *for single 600 lb MAGLOCKS* |
| **10SPACER3UL** | Vertical "spacer bracket" used when the stop requires the MAGLOCK to be lowered - *for single 600 lb MAGLOCKS* |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A) - *battery NOT included* |
| **50.0335** | Screw pack for 10MAGLOCK3UL |

***See page 95 for Access Control packages.***

c UL us LISTED

# 600LB MAGLOCKS WITH DS

MAGLOCKS WITH ADJUSTABLE RELOCK TIME DELAY, LOCK STATUS SENSOR, AND DOOR STATUS SENSOR


### Customizable
Adjustable zero to 90 second relock time delay

### Enhanced Reliability
Lock status sensor with visible LED offers either normally open or normally closed output configurations

### UL Listed
Input voltage of 12 / 24 VDC, must be used with UL Listed power supply

### Mounting Accessories
Variety of mounting hardware available

### Convenient Packages Available
Available in access control packages with sensor, logic module, actuator, and MAGLOCK



## TECHNICAL SPECIFICATIONS

| 10MAGLOCK3ULDS | |
|---|---|
| **Lock** | Single |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 500 mA at 12 VDC<br>250 mA at 24 VDC |
| **Dimensions** | 10 ½" (W) × 2 ⅞" (H) × 1 ½" (D) |
| **Certification** | UL1034 |
| **Operating Temperature** | 14 – 131 °F |
| **Operating Humidity** | 0 – 95% |
| **10MAGLOCK6ULDS** | |
| **Lock** | Double |
| **Input Voltage** | 12 or 24 VDC |
| **Relay Rating** | 1.0 A at 24 VDC resistive |
| **Relay Power Factor** | 1 |
| **Reed Switch Rating** | Dry Contacts: 3W (switching contact 0.25 amps max, switching voltage 30VDC max; resistive load) |
| **Reed Switch Power Factor** | 1 |
| **Power Consumption** | 505 mA × 2 at 12 VDC<br>260 mA × 2 at 24 VDC |
| **Dimensions** | 21" (W) × 2 ⅞" (H) × 1 ½" (D) |
| **Certification** | UL1034 |
| **Operating Temperature** | 14 – 131 °F |
| **Operating Humidity** | 0 – 95% |

## PRODUCT SERIES

| | |
|---|---|
| **10MAGLOCK3ULDS** | 600 lb holding force / Single<br>UL Listed 294 @ 500 lb static force |
| **10MAGLOCK6ULDS** | 600 lb holding force / Double<br>UL Listed 294 @ 500 lb static force |
| **MAG6LZUL** | (2) "L" brackets, (2) "Z" brackets - *for single 600 lb MAGLOCKS* |
| **10UBRACKETUL** | Bracket kit for mounting a MAGLOCK to a glass door up to ½" thick |
| **10FILLER12UL** | ½" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER14UL** | ¼" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER34UL** | ¾" × ¾" horizontal, right filler plate used to fill or extend door stops - *for single locks only* |
| **10FILLER58UL** | ⅝" × ¾" horizontal filler plate used to fill or extend door stops |
| **10RIMHOUSING3UL** | Provides a more aesthetically pleasing look over standard armature plates - *for single 600 lb MAGLOCKS* |
| **10SPACER3UL** | Vertical "spacer bracket" used when the stop requires the MAGLOCK to be lowered - *for single 600 lb MAGLOCKS* |
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A) - *battery NOT included* |
| **50.0341** | Cover plate ONLY with DS switch for 10MAGLOCK3ULDS |
| **50.0343** | Cover plate ONLY with DS switch for 10MAGLOCK6ULDS |
| **50.0335** | Screw pack for 10MAGLOCK3UL |

***See page 95 for Access Control packages.***

# UNIVERSAL KEYPAD FAMILY

ACCESS-CONTROL KEYPADS FOR INDOOR AND OUTDOOR USE

### Highly Flexible
Allows for up to 1100 user codes

### Ideal for Outdoor Environments
IP66 rating ensures the device will withstand the elements in harsh industrial and outdoor environments

### Tamper Alarm
Incorporates a tamper alarm feature as a standard option

### Multiple Relays
Two-zone feature provides 2 relays and 2 exit button outputs for two-zone applications

### Improved Visibility
Back-lit numbers allow for ease of use in dimly lit areas


## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 12 – 24 VAC/VDC<br>***DO NOT EXCEED 30 VDC or 24 VAC*** |
| **Standby Current** | ≤ 30 mA |
| **Working Current** | ≤ 160 mA |
| **Max User Codes** | 1100 |
| Zone 1 | 1000 users |
| Zone 2 | 100 users |
| **Relock Time** | 0 – 99 s |
| **Output** | 2 Form-C relays (free of potential change-over contact) |
| Max. Contact Voltage | 42 VAC / VDC |
| Max. Contact Current | 1 A (resistive) |
| Max. Switching Power | 30 W (VDC) / 48 VA (VAC) |
| **Cable Length** | 3’ |
| **Operating Temperature** | -22 – 158 °F |
| **Operating Humidity** | 0 – 95% (non-condensing) |
| **IP Rating** | IP66 (waterproof and dust proof) |
| **Dimensions** | |
| Single gang | 3” (W) × 4 7⁄10” (H) × 9⁄10” (D) |
| Slim-line | 1 7⁄10” (W) × 5 9⁄10” (H) × 19⁄20” (D) |
| **Certifications** | CE, RoHS |
| **Backlight** | Blue keypad illumination |

## PRODUCT SERIES

| | |
|---|---|
| **10KEYPADU** | Universal keypad for indoor and outdoor use |
| **10KEYPADUSL** | Universal, slimline keypad for indoor and outdoor use |

# LED SIGNAL COLUMN LIGHTS

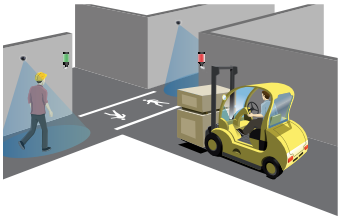
UL LISTED, SINGLE-COLOR LIGHT

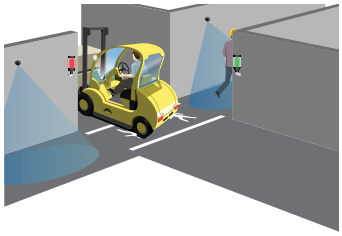
**Standards Compliant**
UL Listed

**Three Highly Visible Colors**
Available LED colors include red, green, and yellow

**Ideal For Harsh Environments**
IP67 rating for maximum performance in harsh environments

**Selectable Voltage**
18 to 30 VDC supply voltage



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 18 – 30 VDC |
| **Indicator Response Time** | |
| Off Response | 10 ms |
| On Response | 10 ms |
| **LED** | Red, green, yellow |
| **Connector** | 78"<br>4-wire integral cable |
| **Operating Temperature** | -40 – 122 °F<br>95% at 122 °F maximum relative humidity (non-condensing) |
| **Degree of Protection** | IP67 |
| **Norm Conformity** | CE, UL1598 listed, UL8750 listed |

## PRODUCT SERIES

| | |
|---|---|
| **10LIGHTC-G** | Green LED column light for signaling applications |
| **10LIGHTC-Y** | Yellow LED column light for signaling applications |
| **10LIGHTC-R** | Red LED column light for signaling applications |
| **10LIGHTC-YA** | Yellow LED column light with audible signal for signaling applications |
| **10LIGHTC-RA** | Red LED column light with audible signal for signaling applications |
| **10LIGHTBRACKET** | LED SIGNAL LIGHT bracket |
| **10PS12-24** | UL / ULC Listed power supply |

# LED SIGNAL MODULAR LIGHTS

UL LISTED, BUILD-YOUR-OWN LIGHTS AND AUDIBLE ALARM

### Highly Durable Indicators

UL Listed and IP65 rated to meet the needs of any application

### Adjustable Settings

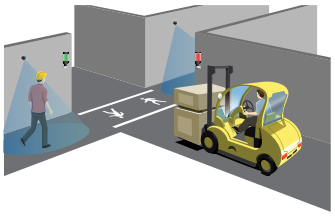
Light units can be programmed to pulse at a rate of 1 ½ or 3 times per second or remain steady

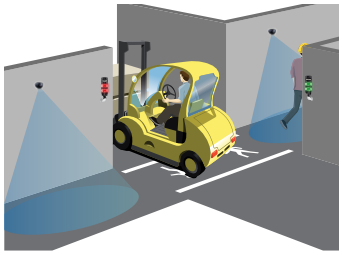
### Optional Alerts

Optional, audible alarm unit offers secondary alert method with chirp, siren, continuous, and 1 ½ beeps-per-second configuration settings

### Flexible Indication Solution

Base unit and bracket are designed for a variety of installation



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 12 – 30 VDC |
| **Indicator Response Time** | |
| Off Response | 150 µs at 12 – 30 VDC |
| On Response | 180 mSec at 12 VDC; 50 mSec at 30 VDC |
| **LED** | Red, green, yellow |
| **Light Flash Rates** | 1.5 Hz ±10%<br>3 Hz ±10% |
| **Audible Alarm** | 2.6 KHz ±250 Hz oscillation frequency;<br>maximum intensity 92 dB at 39.6 in |
| **Audible Adjustment** | Rotate the alarm cover;<br>Open to closed is 8 db |
| **Connector** | 78"<br>8-wire integral cable |
| **Operating Temperature** | -40 – 122 °F<br>95% at 122 °F maximum relative humidity<br>(non-condensing) |
| **Degree Of Protection** | NEMA 4 / IP65 |
| **Norm Conformity** | CE, UL1598 Listed and UL8750 Listed |
| **Dimensions** | |
| Base | 2 ¾" ø × 1 ⅜" (H) |
| Light Segment | 2 ¾" ø × 2 ⅜" (H) |
| Audible Segment | 2 ¾" ø × 2 ¾" (H) |

## PRODUCT SERIES

| | |
|---|---|
| **10LIGHT-TBASE** | LED Modular Signal Light, LED signal base |
| **10LIGHT-TR** | LED Modular Signal Light - single color unit (red) |
| **10LIGHT-TG** | LED Modular Signal Light - single color unit (green) |
| **10LIGHT-TW** | LED Modular Signal Light - single color unit (white) |
| **10LIGHT-TY** | LED Modular Signal Light - single color unit (yellow) |
| **10LIGHT-A** | Modular, LED signal, audible segment |
| **10LIGHTBRACKET** | LED Signal Light bracket |
| **10LIGHTBRACKET-TL70** | LED Signal Light bracket - 30mm, 12 gauge SS, curved mounting |
| **10PS12-24** | UL / ULC Listed power supply |

# LED SIGNAL TRAFFIC LIGHTS

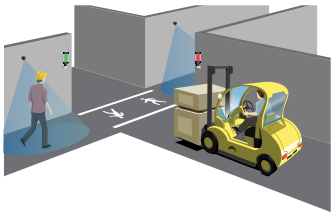
RUGGED, COST-EFFECTIVE SIGNALS FOR
WARNING INDICATION SYSTEMS

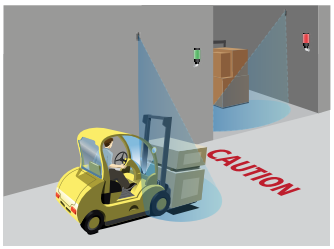
**Standards Compliant**
Single-light model rated IP67; double-light model rated IP65

**Customizable**
Controlled field of view for signage and narrow-lane use

**Highly Visible**
Intense levels of light output for outdoor applications

**Dual-Indicator Modes**
One- and two-indicator models available






## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 15 – 30 VDC |
| **Indicators** | |
| Off Response | 10 ms max. |
| On Response | 10 ms max. |
| **LED** | |
| One Indicator | Red or green |
| Two Indicator | Red and green |
| **Connections** | Field wired |
| **Operating Temperature** | -40 – 122 °F |
| **Material** | PC |
| **Degree of Protection** | |
| Single | IP67 |
| Double | IP65 |
| **Norm Conformity** | CE |

## PRODUCT SERIES

| | |
|---|---|
| **10LIGHTS-G** | Traffic, green LED signal light |
| **10LIGHTS-R** | Traffic, red LED signal light |
| **10LIGHTD-RG** | Traffic, red/green LED signal light |
| **10PS12-24** | UL / ULC Listed power supply |

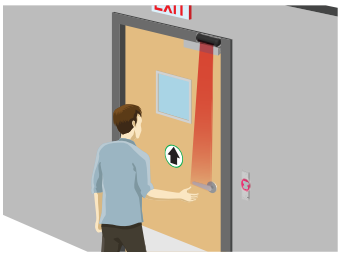
# ACCESS CONTROL PACKAGES

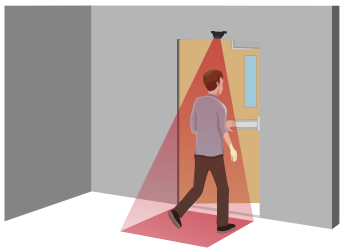
SINGLE-DOOR APPLICATION PACKAGES


**Easy Ordering**
Packages for request-to-exit applications

**Customizable**
Package includes your choice of request-to-exit sensors, 600 or 1200 lb MAGLOCK, coupled with door logic and power

**Easy Installation**
Wiring diagram included





## PRODUCT SERIES

| | |
|---|---|
| **10ACP12** | Single Door Package 1 utilizes our R2E-100 with focused active infrared presence detection pattern for secure request-to-exit and a 1200 lb MAGLOCK<br>(1) 10PS12-24 - UL power supply, filtered and regulated<br>(1) 10MAGLOCK1UL - 1200 lb MAGLOCK (pg **76**)<br>(1) 10R2E100 - Request-to-Exit sensor (pg **36**)<br>(1) 10ACPBSS1 - "Push-to-Exit" button (pg **78**)<br>(1) 10BR3X - programmable, 3-relay, logic module (pg **54**) |
| **10ACP12F** | Single Door Package 2 utilizes our FLY with adjustable, passive infrared presence detection pattern for secure request-to-exit and a 1200 lb MAGLOCK<br>(1) 10PS12-24 - UL power supply, filtered and regulated<br>(1) 10MAGLOCK1UL - 1200 lb MAGLOCK (pg **76**)<br>(1) 10FLYKITB - Request-to-Exit sensor (pg **18**)<br>(1) 10ACPBSS1 - "Push-to-Exit" button (pg **78**)<br>(1) 10BR3X - programmable, 3-relay, logic module (pg **54**) |

| | |
|---|---|
| **10ACP6** | Single Door Package 3 utilizes our R2E-100 with focused active infrared presence detection pattern for secure request-to-exit and a 600 lb MAGLOCK<br>(1) 10PS12-24 - UL power supply, filtered and regulated<br>(1) 10MAGLOCK3UL - 600 lb MAGLOCK (pg **91**)<br>(1) 10R2E100 - Request-to-Exit sensor (pg **36**)<br>(1) 10ACPBSS1 - "Push-to-Exit" button (pg **78**)<br>(1) 10BR3X - programmable, 3-relay, logic module (pg **54**) |
| **10ACP6F** | Single Door Package 4 utilizes our FLY with adjustable, passive infrared presence detection pattern for secure request-to-exit and a 600 lb MAGLOCK<br>(1) 10PS12-24 - UL power supply, filtered and regulated<br>(1) 10MAGLOCK3UL - 600 lb MAGLOCK (pg **91**)<br>(1) 10FLYKITB - Request-to-Exit sensor (pg **18**)<br>(1) 10ACPBSS1 - "Push-to-Exit" button (pg **78**)<br>(1) 10BR3X - programmable, 3-relay, logic module (pg **54**) |

# LOW-ENERGY PACKAGES

ALL-IN-ONE, REACTIVATION PACKAGES FOR LOW-ENERGY DOORS


### Easy Ordering

Convenient solution that includes secondary reactivation and enhanced door logic

### Logic Control

LE21 or BR3-X logic disables SUPERSCAN-T until the door is activated by a knowing act device

### Door Monitoring

Door position switch monitors state of door to enable / disable sensors

## PRODUCT SERIES

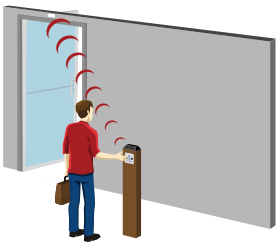
| | |
|---|---|
| **LE PACKAGE 6** | (1) 10SSTII (length) - SUPERSCAN-T II door-mounted, safety sensor (pg **37** – **39**)<br>(1) primary, (1) secondary<br>34 ½" end cap to end cap (for 36" doors)<br>(1) 10BR3X programmable, 3-relay, logic module (pg **54**)<br>(1) 10SWITCH75 magnetic, door position switch<br>½" gap, NO / NC, SPDT<br>7⁄16" diameter, flush mount |
| **LE PACKAGE 6 SECURITY** | (1) 10SSTII (length) - SUPERSCAN-T II door-mounted, safety sensor (pg **37** – **39**)<br>(1) primary, (1) secondary<br>34 ½" end cap to end cap (for 36" doors)<br>(1) 10BR3X programmable, 3-relay, logic module (pg **54**)<br>(1) 10SWITCH75 magnetic, door position switch<br>½" gap, NO / NC, SPDT<br>7⁄16" diameter, flush mount |

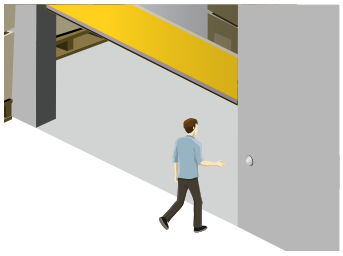
# PUSH PLATE PACKAGES

ALL-IN-ONE PACKAGE CONTAINING PUSH PLATES, WIRELESS TRANSMITTERS AND RECEIVERS, AND MOUNTING OPTIONS


**Customizable**
Flexible solution offering variety of push plate, mounting, and wireless options

**One-Box Solution**
Convenient solutions available





## PRODUCT SERIES

| | |
|---|---|
| **PANTHER 1** | (1) PANTHER plate, any style (pg 66)<br>(1) 10RD433 or 10RD433EH receiver (pg 58) or 10RD900 receiver (pg 59) |
| **PANTHER 2** | (2) PANTHER plate, any style (pg 66)<br>(1) 10RD433 or 10RD433EH receiver (pg 58) or 10RD900 receiver (pg **59**) |
| **PUSH PLATE 1** | Choice of (1) PUSH PLATE, any style* (pg 61 – 68)<br>(1) Matching surface- or flush-mount box<br>(1) Receiver and (1) Transmitter, any frequency (pg 57 – **59**)<br>**does NOT include LPR36, JAMB, VESTIBULE, PANTHER, or MAGIC SWITCH* |
| **PUSH PLATE 2** | Choice of (2) PUSH PLATES, any style* (pg 61 – 68)<br>(2) Matching surface- or flush-mount boxes<br>(1) Receiver and (2) Transmitters, any frequency (pg 57 – **59**)<br>**does NOT include LPR36, JAMB, VESTIBULE, PANTHER, or MAGIC SWITCH* |
| **PUSH PLATE 3** | Choice of (1) jamb PUSH PLATE, any style (pg **64**)<br>(1) Matching surface-mount box<br>(1) Receiver and (1) Mini transmitter, any frequency (pg 57 – **59**) |
| **PUSH PLATE 4** | Choice of (2) jamb PUSH PLATES, any style (pg **64**)<br>(2) Matching surface-mount boxes<br>(1) Receiver and (2) Mini transmitters, any frequency (pg 57 – **59**) |
| **PUSH PLATE 45 ONE-BOX SOLUTION** | Choice of (2) 4 ½ in square PUSH PLATES, any style (pg **61**)<br>(2) 4 ½" square, surface-mount boxes<br>(1) 433 MHz receiver and (2) 3-volt or 9-volt 433 MHz transmitters (pg 58) |
| **PUSH PLATE 45 900 ONE-BOX SOLUTION** | Choice of (2) 4 ½ in square PUSH PLATES, any style (pg **61**)<br>(2) 4 ½" square, surface-mount boxes<br>(1) 10TD900PB transmitter and (1) 10RD900 receiver (pg **59**) |
| **VESTIBULE 900** | (1) 10PBDGP1 - Vestibule PUSH PLATE (pg 68)<br>(1) 4 ¾" square, surface-mount box<br>(2) PUSH PLATE options* with matching mounting boxes (pg 61 – 68)<br>(4) 10TD900PB - 3-volt transmitters and (2) 10RD900 receivers (pg 59)<br>**options include (2) PBS series, (2) PBS45 series, (2) PBS6 series, (2) PBR45 series, (2) PBR series or (2) PBJ series* |
| **VESTIBULE PACKAGE** | (1) 10PBDGP1 - Vestibule PUSH PLATE (pg 68)<br>(1) 4 ¾" square, surface-mount box<br>(2) PUSH PLATE options* with matching mounting boxes (pg 61 – 68)<br>(4) 3-volt OR 9-volt transmitters and (2) 10RD433 or 10RD433EH receivers (pg **58**)<br>**options include (2) PBS series, (2) PBS45 series, (2) PBS6 series, (2) PBR45 series, (2) PBR series or (2) PBJ series* |
| **VESTIBULE PACKAGE 9V** | (1) 10PBDGP1 - Vestibule PUSH PLATE (pg 68)<br>(1) 4 ¾" square, surface-mount box<br>(2) PUSH PLATE options* with matching mounting boxes (pg 61 – 68)<br>(4) 10TD433PB9V - 9-volt transmitters and (2) 10RD433 or 10RD433EH receivers (pg **58**)<br>**options include (2) PBS series, (2) PBS45 series, (2) PBS6 series, (2) PBR45 series, (2) PBR series or (2) PBJ series* |

# SECURITY PUSH PLATE PACKAGES

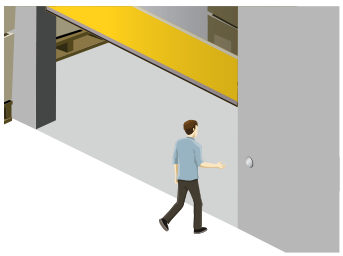
CONVENIENT PACKAGES BUILT WITH BEA'S MOST POPULAR PUSH PLATES


### Customizable

Choose from these convenient one-box solutions that include our most popular mounting option, push plate artwork, and wireless transmitters and receivers

### One-Box Solutions

Packages available for vestibule and other common knowing-act applications

## PRODUCT SERIES

| | |
|---|---|
| **PUSH PLATE 45S-433** | (2) 10PBS451 - square PUSH PLATES (pg 61)<br>(2) 10BOX45SQSM - surface-mount boxes<br>(2) 10TD433PB9V - 9-volt 433 MHz transmitter (pg 58)<br>(1) 10RD433 - 433 MHz receiver (pg 58) |
| **PUSH PLATE 45S-900** | (2) 10PBS451 - square PUSH PLATES (pg 61)<br>(2) 10BOX45SQSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10RD900 - 900 MHz receiver (pg 59) |
| **PUSH PLATE 45S-BR2900** | (2) 10PBS451 - square PUSH PLATES (pg 61)<br>(2) 10BOX45SQSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10BR2900 - 2-relay, logic module (pg 53) |
| **PUSH PLATE 45S-HW** | (2) 10PBS451 - square PUSH PLATES (pg 61)<br>(2) 10BOX45SQSM - surface-mount boxes<br>***HARDWIRED SOLUTION ONLY*** |
| **PUSH PLATE 475 EBA-900** | (2) 10PBS1 - square PUSH PLATES (pg **62**)<br>(2) 10BOX475SQSMEBA - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10RD900 - 900 MHz receiver (pg 59) |
| **PUSH PLATE 475S-433** | (2) 10PBS1 - square PUSH PLATES (pg **62**)<br>(2) 10BOX475SQSM - surface-mount boxes<br>(2) 10TD433PB9V - 9-volt 433 MHz transmitter<br>(1) 10RD433 - 433 MHz receiver (pg 58) |
| **PUSH PLATE 475S-900** | (2) 10PBS1 - square PUSH PLATES (pg **62**)<br>(2) 10BOX475SQSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10RD900 - 900 MHz receiver (pg 59) |
| **PUSH PLATE 475S-BR2900** | (2) 10PBS1 - square PUSH PLATES (pg **62**)<br>(2) 10BOX475SQSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10BR2900 - 2-relay, logic module (pg **53**) |
| **PUSH PLATE 475S-HW** | (2) 10PBS1 - square PUSH PLATES (pg **62**)<br>(2) 10BOX475SQSM - surface-mount boxes<br>***HARDWIRED SOLUTION ONLY*** |
| **PUSH PLATE 6R-433** | (2) 10PBR1 - round PUSH PLATES (pg **63**)<br>(2) 10BOX6RNDSM - surface-mount boxes<br>(2) 10TD433PB9V - 9-volt 433 MHz transmitter (pg 58)<br>(1) 10RD433 - 433 MHz receiver (pg 58) |
| **PUSH PLATE 6R-900** | (2) 10PBR1 - round PUSH PLATES (pg **63**)<br>(2) 10BOX6RNDSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10RD900 - 900 MHz receiver (pg 59) |
| **PUSH PLATE 6R-BR2900** | (2) 10PBR1 - round PUSH PLATES (pg **63**)<br>(2) 10BOX6RNDSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10BR2900 - 2-relay, logic module (pg **53**) |
| **PUSH PLATE JAMB-433** | (2) 10PBJ1 - jamb PUSH PLATES (pg **64**)<br>(2) 10BOXJAMBSM - surface-mount boxes<br>(2) 10TD433PB9V - 9-volt 433 MHz transmitter (pg 58)<br>(1) 10RD433 - 433 MHz receiver (pg **56**) |
| **PUSH PLATE JAMB-900** | (2) 10PBJ1 - jamb PUSH PLATES (pg **64**)<br>(2) 10BOXJAMBSM - surface-mount boxes<br>(2) 10TD900PB - 900 MHz transmitter (pg 59)<br>(1) 10RD900 - 900 MHz receiver (pg 59) |
| **VESTIBULE PACKAGE 433** | (1) 10PBDGP1 - vestibule PUSH PLATE (pg **68**)<br>(1) 10BOX475SQSM - surface-mount boxes<br>(2) 10PBS1 with matching mounting boxes (pg **62**)<br>(4) 10TD433PB9V - 9-volt 433 MHz transmitter (pg 58)<br>(2) 10RD433 - 433 MHz receiver (pg **58**) |
| **VESTIBULE PACKAGE 900** | (1) 10PBDGP1 - vestibule PUSH PLATE (pg **68**)<br>(1) 10BOX475SQSM - surface-mount boxes<br>(2) 10PBS1 with matching mounting boxes (pg **62**)<br>(4) 10TD900PB - 900 MHz transmitter (pg 59)<br>(2) 10RD900 - 900 MHz receiver (pg **59**) |

# REQUEST-TO-EXIT PACKAGES

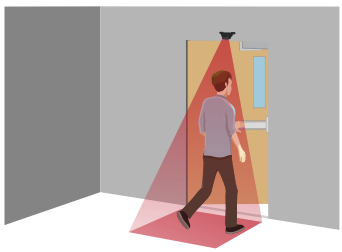
CONVENIENT DOOR PACKAGES FOR REQUEST-TO-EXIT APPLICATIONS


### Customizable

Select your choice of MAGLOCK DS (available in either 600 or 1200 lb holding force) and your choice of BEA exit sensor (either R2E-100 or FLY Kit)

### One-Box Solutions

Convenient packages offer superior pricing and whole-door solution

## PRODUCT SERIES

| | |
|---|---|
| **10ACP12DS** | (1) 10R2E100 - UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications (pg 36) |
| | (1) 10PS12-24 - UL, filtered and regulated power supply (pg 109) |
| | (1) 10ACPBSS1 - Push-to-Exit button (pg 78) |
| | (1) 10BR3X - programmable 3-relay logic module (pg 54) |
| | (1) 10MAGLOCK1ULDS - 1200 lb MAGLOCK (pg 90) |
| **10ACP6DS** | (1) 10R2E100 - UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications (pg 36) |
| | (1) 10PS12-24 - UL, filtered and regulated power supply (pg 109) |
| | (1) 10ACPBSS1 - Push-to-Exit button (pg 78) |
| | (1) 10BR3X - programmable 3-relay logic module (pg 54) |
| | (1) 10MAGLOCK3ULDS - 600 lb MAGLOCK (pg 92) |

| | |
|---|---|
| **10ACP12FDS** | (1) 10FLYKITB - Request-to-Exit sensor (pg **18**) |
| | (1) 10PS12-24 - UL, filtered and regulated power supply (pg 109) |
| | (1) 10ACPBSS1 - Push-to-Exit button (pg 78) |
| | (1) 10BR3X - programmable 3-relay logic module (pg 54) |
| | (1) 10MAGLOCK1ULDS - 1200 lb MAGLOCK (pg 90) |
| **10ACP12FDS** | (1) 10FLYKITB - Request-to-Exit sensor (pg **18**) |
| | (1) 10PS12-24 - UL, filtered and regulated power supply (pg 109) |
| | (1) 10ACPBSS1 - Push-to-Exit button (pg 78) |
| | (1) 10BR3X - programmable 3-relay logic module (pg 54) |
| | (1) 10MAGLOCK3ULDS - 600 lb MAGLOCK (pg 92) |

# EMERGENCY ADD-ON KIT

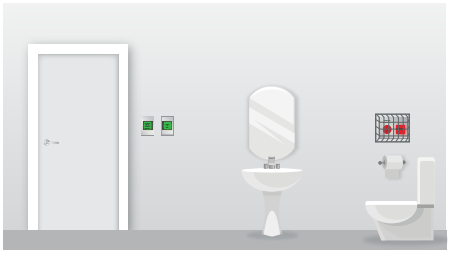
FOR SINGLE-OCCUPANCY RESTROOMS


### For Outside Signaling
"ASSISTANCE REQUIRED" signal (LED + adjustable sounder)

### Combined Unit for Ease of Installation
"PUSH FOR EMERGENCY ASSISTANCE" button + indicator (LED + selectable sounder)

### Signage Available in English and French
Double-sided signage offers French and English emergency notice

### Code Compliant
Ontario Regulation 368 / 13 compliant



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **10ARS** | |
| **Lamp Voltage Rating** | 28 VAC/VDC |
| **Sounder Voltage Rating** | 16 – 25 VAC/VDC |
| **Sounder Current Rating** | 15 mA |
| **Lamps** | Miniature bayonet type (#313) |
| **Mounting** | Fits standard single-gang |
| **Sounder/Lamp Terminal** | 2 pigtail wires (each) |
| **Materials** | Stainless steel and PC |
| **Dimensions** | |
| Single-gang faceplate | 2 ¾" (W) × 4 ½" (H) |
| White Lens (B-31695) | 2 ¼" (W) × 4" (H) × 3 ⅛" (D) |
| **10EBUTTONCOMBO** | |
| **Voltage** | 12 – 24 VAC/VDC ±10% |
| **Indication** | Audible buzzer (selectable on/off) and visual LED |
| **Text Inserts** | 10 |
| **Button** | E-stop button<br>Push on / Pull off |
| **Materials** | Stainless steel and PC |
| **Accessory** | Rubber weather gasket included |
| **Certifications** | FCC |
| **Dimensions** | 4 ½" (W) × 4 ½" (H) |
| **70.5675** | |
| **Material** | Polystyrene |
| **Dimensions** | 12" (W) x 5 ½" (H) |
| **Language** | Double-sided, French/English |

## PRODUCT SERIES

| | |
|---|---|
| **10EMERGENCYKIT** | Emergency Add-On Kit includes:<br>(1) 70.5675, (1) 10EBUTTONCOMBO, and (1) 10ARS |
| **10ARS** | "Assistance Required" Signal |
| **70.5675** | Emergency signage |
| **10EBUTTONCOMBO** | "Push for Emergency Assistance"<br>Double Gang Button + Indicator |
| **10RESTROOMKIT** | Restroom Kit includes:<br>(1) 10PTLBUTTON, (1) 10LEDSOUNDER,<br>(1) 10SWITCH1084, and (1) 10BR3X |
| **1012VAC** | 12 VAC (20 VA) transformer |
| **1024VAC** | 24 VAC (40 VA) transformer |

# RESTROOM KIT

FOR SINGLE-OCCUPANCY, NORMALLY LOCKED/UNLOCKED RESTROOMS

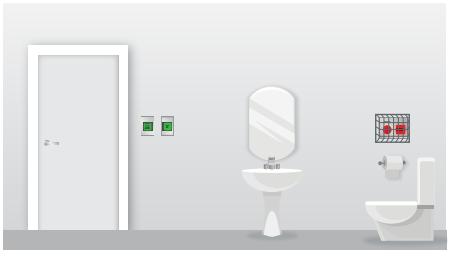

### Advanced Logic with Restroom Functionality
BR3-X (13-function advanced logic module) controls locking and sequencing functionality

### Highly Visible and Audible
Occupied Indicator with LED

### Visual Lock Confirmation
Push-to-Lock Button with LED

### Door Position Reset For Proper Functionality
Door position switch ensures proper positioning of the door before resetting the system

### Code Compliant
Ontario Regulation 368/13 compliant



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **10BR3X** | |
| *See page 54* | |
| **10LEDSOUNDER** | |
| **Voltage** | 12 – 24 VAC/VDC ±10% |
| **Indication** | Audible buzzer (selectable on/off) and visual LED |
| **Text Inserts** | 10 |
| **Material** | Stainless steel |
| **Certifications** | FCC |
| **10PTLBUTTON** | |
| **Switch** | SPST |
| **Voltage Max.** | 125 / 250 VAC |
| **Current Max.** | 10 A |
| **Power Max.** | 373 W |
| **Electrical Configuration** | SPDT |
| **High-volt Bulb** | |
| Input voltage | 15 – 24 VAC/VDC |
| Current | 0.06 A |
| **Low-volt Bulb** | |
| Input voltage | 12 – 14 VAC/VDC |
| Current | 0.19 A |
| **Dimensions** | 2 1/13" (W) × 4 ½" (H) × ¾" (D) |
| **10SWITCH1084** | |
| **Switching Voltage Max.** | 30 VAC/VDC |
| **Switching Current Max.** | 0.25 A |
| **Power Max.** | 3.0 W |
| **Electrical Configuration** | SPDT |
| **Loop Type** | Open or closed |
| **Gap Distance Max.** | 2" |

## PRODUCT SERIES

| | |
|---|---|
| **10RESTROOMKIT** | Restroom Kit includes:<br>(1) 10PTLBUTTON<br>(1) 10LEDSOUNDER<br>(1) 10SWITCH1084<br>(1) 10BR3X |
| **10BR3X** | 3-relay logic module |
| **10LEDSOUNDER** | Occupied indicator |
| **10PTLBUTTON** | "Push To Lock" button |
| **10EMERGENCYKIT** | Emergency Add-On Kit includes:<br>(1) 70.5675<br>(1) 10EBUTTONCOMBO<br>(1) 10ARS |
| **10MAGLOCK1UL** | 1200 lb, single |
| **10MAGLOCK3UL** | 600 lb, single |
| **10STRIKECU** | UNIVERSAL CYLINDRICAL electric strike |
| **10STRIKERE** | RIM EXIT electric strike |
| **10SWITCH1084** | Door position switch |
| **10PS12-24** | UL / ULC Listed power supply |
| **1012VAC** | 12 VAC (20 VA) transformer |
| **1024VAC** | 24 VAC (40 VA) transformer |

# MAGIC SWITCH RESTROOM KITS

TOUCHLESS RESTROOM KITS FOR SINGLE-OCCUPANCY,
NORMALLY LOCKED/UNLOCKED RESTROOMS


### Hands-free Operation
BEA's MS42 microwave actuator reduces touchpoints and provides reliable activation and locking functionality for users

### Convenient, One-Box Solutions
Pre-configured kits make ordering and stocking a breeze

### Ease of Installation
Pre-wired BR3-X comes integrated in the UL294-listed power supply cabinet for quick installation

### Fast Setup and Finetuning
Convenient remote control programming eliminates manual sensor adjustments, saving time and streamlining installation



## TECHNICAL SPECIFICATIONS

### POWER SUPPLY ENCLOSURE

| | |
|---|---|
| **Agency listings** | UL294, cUL, CSFM, MEA, NFPA 101 |
| **Input** | 115VAC, 60Hz, 0.6A. |
| **Output** | 12VDC or 24VDC<br>1.75A continuous |
| **Supervision** | AC fail supervision<br>Dry trigger output |
| **Fire alarm interface** | Dry trigger input |
| **Visual indicators** | AC input and DC output LED indicators |
| **Enclosure dimensions** | 8.5" × 7.5" × 3.5"<br>(215.9mm × 190.5mm × 88.9mm) |

### LOGIC MODULE

| | |
|---|---|
| **Supply voltage** | 12 – 24 VAC/VDC ±10% |
| **Current consumption** | 30 – 130 mA (DRY output) |
| **Temperature rating** | -15 – 150 °F (-26 – 150 °C)<br>If powered by AC voltage and using WET output to convert to DC voltage and current draw of device is greater than 0.9 A, the upper temperature range is 130 °F (54 °C). |
| **Input** | |
| Input 1, 2, 3, 4 | DRY contact |
| WET input | 5-24 VAC/VDC ±10% |
| **Contact rating** | |
| relay 1 (DRY) | 3 A @ 24 VAC or 30 VDC |
| relay 1 (WET) | 1 A |
| relay 2 | 3 A @ 24 VAC or 30 VDC |
| relay 3 | 1 A @ 24 VAC or 30 VDC |
| **Dimensions** | 5.2" x 2.2" x 1" (133 mm x 55 mm x 25 mm) |
| **Housing** | ABS - white translucent |

### MS42

| | |
|---|---|
| **Technology** | microwave motion sensor |
| **Radiated frequency** | 24.150 GHz |
| **Detection range** | 4 – 24" (adjustable) |
| **Supply voltage*** | 12 – 24 VAC ±10%<br>12 – 24 VDC +30% / -10% |
| **Power consumption** | < 1.5W |
| **Output*** | Electronic relay (galvanic isolation - polarity free) |
| max. voltage | 42 VDC / 30 VAC |
| max. current | 100 mA |
| **Temperature range** | -20 – 55 °C |
| **IP rating** | IP55 |
| **Certification** | EMC: 2004/108/EC<br>FCC: G9B-210161<br>IC: 4680A-210161 |

* External electrical sources must be within specified voltages (max 15 W) and ensure double insulation from primary voltages.

### DOOR POSITION SWITCH

| | |
|---|---|
| **Gap distance** | 0.43" |
| **Loop** | open |
| **Reed form** | N.C. |
| **Max. contact rating** | 3 W |
| **Max. initial contact resistance** | 100 mΩ |
| **Max. switching voltage** | 30 VAC/VDC |
| **Max. switching current** | 0.2 A |
| **Color** | white |
| **Leads length** | 12", 22 AWG |
| **Contact size** | 1.1" (L) × 0.37" (W) × 0.19" (H) |

## PRODUCT SERIES

| | |
|---|---|
| **10MSRR-S** | Touchless restroom kit, without power supply - single gang |
| **10MSRR-SGPS** | Touchless restroom kit, with power supply - single gang |
| **10MSRR-D** | Touchless restroom kit, without power supply - double gang |
| **10MSRR-DGPS** | Touchless restroom kit, without power supply - double gang |

# BOLLARDS

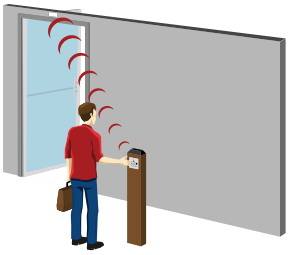
MOUNTING POST FOR PUSH PLATES

### Enhances Accessibility
Compatible with most push plate shapes and sizes, bollards provide a mounting surface for ADA-compliant actuators

### Versatile Mounting
Can be mounted either on existing concrete or in newly poured concrete

### Variety Of Styles Available
Available in silver, bronze, and black and with or without hole

### Wireless Compatibility
UV-resistant ABS plastic cap allows for transmission when using wireless transmitters



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions (with cap)** | 41 ½" (H) × 6 ¼" (W) × 4 ¼" (D) |
| **Materials** | |
| Post | Powder-coated, carbon steel (exterior + partial interior) |
| Cap | UV-resistant ABS |
| Bracket | Stainless steel |
| **Push Plate Compatibility*** | 4 ½" square, 4 ¾" square (including PANTHER)<br>Dual-vestibule, 4 ½" round |
| **Weight** | 35 lb |
| **Color** | Black, bronze, or silver |
| **Hardware** | |
| Post | ½" × 13 UNC × 1" socket-head bolts (4) – 5⁄16" hex |
| Cap | #6 × ¾" sheet metal screws (3) and #6 finishing washers (3) |
| Bracket | 3" expansion anchors (4), lock washers (4), and nuts (4) |

* "Without hole" versions will accommodate 6" square and 6" round PANTHER plates as well as surface-mount card readers, keypads, or other surface-mount devices.

## PRODUCT SERIES

| | |
|---|---|
| **10BOLLARDBLK*** | Mounting post for stainless steel push plates (black) |
| **10BOLLARDSLV*** | Mounting post for stainless steel push plates (silver) |
| **10BOLLARDBRZ*** | Mounting post for stainless steel push plates (bronze) |
| **10BOLLARDBLKWOH*** | Mounting post without precut mounting holes (black) |
| **10BOLLARDSLVWOH*** | Mounting post without precut mounting holes (silver) |
| **10BOLLARDBRZWOH*** | Mounting post without precut mounting holes (bronze) |
| **50.0073** | Plastic, transmitter shelf for BOLLARD |
| **50.5320** | BOLLARD hardware pack includes:<br>Larger compression bolts<br>Undercut screws<br>Washers |
| **70.0195** | BOLLARD cap |
| **70.5022** | U-shaped BOLLARD mounting bracket (bracket only), larger screw holes |

* All bollards include: 50.0073, 50.5320, 70.0195, and 75.5022.

# MOUNTING BOX EBA

MOUNTING BOX WITH EASY BATTERY ACCESS

### Unique Two-Piece Design

- Ensures easy installation
- Allows for quick battery replacement compared to standard mounting boxes
- Eliminates the need to disassemble the push plate from the back
- Improves wireless transmitter accessibility compared to small change-out compartments

### Convenient Access

Locking screw secures box to mounting plate

### Compatibility

Designed for BEA's most popular push plate design

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Dimensions** | 5 13/32" (W) × 5 13/32 " (H) × 1 31/32 " (D) |
| **Materials** | |
| Box | ABS |
| Locking Screw | Stainless steel |

## PRODUCT SERIES

| | |
|---|---|
| **10BOX475SQSMEBA** | Mounting box with easy battery access |
| **10PBS** | 4 ¾" square push plate, "Push To Open" text only |
| **10PBS1** | 4 ¾" square push plate, "Push To Open" text and accessibility logo |
| **10PBSLL** | 4 ¾" square push plate, accessibility logo only |
| **10PBS10** | 4 ¾" square push plate, plain |
| **10PBSE** | 4 ¾" square push plate, "Push To Exit" text only |
| **10PBS1B** | 4 ¾" square push plate, white on blue "Push To Open" text and accessibility logo |
| **10PBS1SB** | 4 ¾" square push plate, blue on satin brass "Push To Open" text and accessibility logo |
| **10TD900PB** | Hardwired transmitter |
| **10TD433PB3V** | Wired transmitter, with flag connectors, 1-button (3-volt battery) |
| **10TD433PB9V** | Wired transmitter, with flag connectors, 1-button (9-volt battery) |
| **10WRSQ475** | PBS series weather ring |

# INSTALLATION ACCESSORIES

BEA'S LINE OF SUPPLEMENTAL DOOR ACCESSORIES

## PRODUCT SERIES

| | |
|---|---|
| **10TECHKIT** | Includes BEA Spotfinder, BEA Universal Remote Control, Door Pressure Gauge, and a BEA Screwdriver |
| **10DOORSWITCH** | On / Off / Hold Open switch |
| **10DPG50** | Door pressure gauge, 50 lbs |
| **10REL12VAC** | DPDT isolation relay<br>12 VAC only |
| **10REL12VDC** | DPDT isolation relay<br>12 VDC only |
| **10REL24V** | DPDT isolation relay<br>24 VAC only |
| **10REL24VDC** | DPDT isolation relay<br>24 VDC only |
| **10REMOTE** | Universal remote control for sensor setup |
| **10SPOTFINDER** | Active-infrared-spot finder |
| **10SWITCH75** | Magnetic, door position switch<br>½" gap, NO / NC, SPDT<br>0.44" diameter, flush mount |
| **10SWITCH1076** | Magnetic, door position switch<br>¾ to 2" gap, NO / NC, SPDT<br>0.875" diameter, flush mount |
| **10SWITCH1084** | Magnetic, door position switch<br>2" gap, NO, SPDT<br>surface mount with terminal strip |
| **10SWITCH1277** | Magnetic, door position switch<br>½" gap, NO / NC, SPDT<br>0.375" diameter, flush mount |
| **30.5580** | Magnetic, door position switch<br>¾" gap, NO, SPST<br>0.375" diameter, flush mount |
| **50.5283** | Magnetic, door position switch<br>¾" gap, NO, SPST, flush mount |

**10TECHKIT**


**10DOORSWITCH**

**10DPG50**

**10RELXXXX**

**10REMOTE**

**10SPOTFINDER**

**10SWITCH75**

**10SWITCH1076**

**10SWITCH1084**

**10SWITCH1277**

**30.5580**

**50.5283**

# JAMB CAM

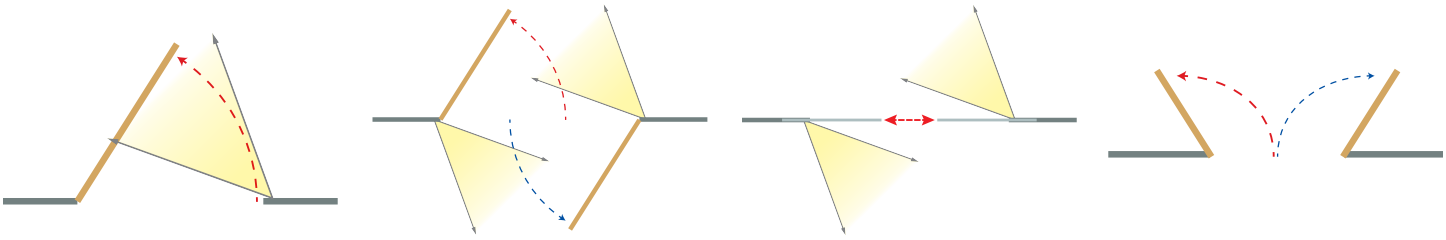
JAMB-MOUNTED, COLOR VIDEO CAMERA

### High Resolution Video
Full-color video with resolution of 480 by 720 (480p)

### Visual Coverage of Door Threshold
Wide angle lens for complete view of door and traffic flow

### Easy to Install
Integrated voltage regulator for installation convenience

### Low-Profile Camera
Low-profile design minimizes accidental damage from shopping carts and other errant objects



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Supply Voltage** | 6.6 – 36 VDC; ±10%<br>6.0 – 28 VAC; ±10% |
| **Operating Temperatures** | -22 – 140 °F (relative humidity 95% max)<br>(-30 – 60 °C) |
| **Video Output** | 1.0 (Vp-p) / 75 Ω |
| **Image Sensor** | CMOS |
| **Horizontal Resolution** | 480 TVL |
| **NTSC Output** | 720 (H) × 480 (W) |
| **Sync System** | Inter-Sync |
| **Frame Rate** | 30 fps |
| **Minimum Illumination** | 0.01 LUX |
| **AE Control** | Auto |
| **Gain Control** | Auto |
| **Electronic Shutter** | 1 s ~ 1/10,000 s |
| **S/N Ratio** | > 50 dB |
| **AWB** | Auto |
| **Dimensions** | 1 ¾" (W) × 3" (H) × ¾" (D) |

## PRODUCT SERIES

| | |
|---|---|
| **10JAMBCAM** | Jamb-mounted, color video camera |
| **10IXIODT1V** | IXIO-DT1 with integrated video |
| **20.2006** | 14' camera harness and power supply |

# POWER SUPPLIES AND TRANSFORMERS

Can be used with select BEA products that require additional power

10PS12-24

10PS12-24D

10PSST242

10PSMDR2024


10PSVR5T

1012VAC

1024VAC

## TECHNICAL SPECIFICATIONS

### 10PS12-24

| | | |
|---|---|---|
| **Output (Power Supply)** | | |
| VDC | 12 VDC | 24 VDC |
| Switch Position | SW1 open | SW1 closed |
| Max. Stand-by Load DC | 1.75 A | 1.75 A |
| Max. Alarm Load DC | 1.75 A | 1.75 A |
| Battery (optional) | 12 VDC | 24 VDC |
| **Output (Stand-by)** | | |
| VDC | 12 VDC / 7 AH battery | 12 VDC / 7 AH battery |
| 4 Hr. of Stand-by and 5 Minutes of Alarm | Stand-by = 1.25 A | Alarm = 1.25 A |
| **Input** | 115 VAC / 60 Hz, 0.6 amp<br>Fire alarm panel or access control trigger input | |
| **Supervision** | AC fail supervision (form "C" contacts)<br>AC input and DC output LED indicators<br>Short circuit and thermal overload protection<br>Unit includes: power supply, transformer and enclosure | |
| **Visual Indicators** | AC input and DC output LED indicators | |
| **Enclosure Dimensions** | 7 ½" (W) × 8 ½" (H) × 3 ½" (D) | |
| **Norm Conformity** | UL Listed (UL294), ULC Listed - CSA Standard C22.2, No.205-M1983, Signal Equipment, CSFM (California State Fire Marshal) Approved, MEA - NYC Dept. of Buildings Approved, NFPA 101 (Life Safety) | |

### 10PS12-24D

| | | |
|---|---|---|
| **Battery Backup** | Maximum charge current: 400mA<br>Automatic switch over to stand-by battery when AC fails | |
| **Output (Power Supply)** | | |
| VDC | 12 VDC | 24 VDC |
| Switch Position | SW1 open | SW1 closed |
| Max. Stand-by Load DC | 1.75 A | 1.75 A |
| Max. Alarm Load DC | 1.75 A | 1.75 A |
| Battery (optional) | 12 VDC | 24 VDC |
| **Output (Stand-by)** | | |
| VDC | 12 VDC / 7 AH Battery | 12 VDC / 7 AH Battery |
| 4 Hr. of Stand-by and 5 Minutes of Alarm<br>***Battery not included*** | Stand-by = 1.25 A | Alarm = 1.25 A |
| **Output** | Selectable 12 VDC or 24 VDC power limited outputs<br>Class 2 Rated power limited outputs<br>1.75 A continuous supply current at 12 VDC or 24 VDC<br>Filtered and electronically regulated output<br>Short circuit and thermal overload protection | |
| **Input** | 115 VAC / 60 Hz, 0.6 A | |
| **Supervision** | AC fail supervision (form "C" contacts)<br>Dry trigger output (form "C" contacts) | |
| **Fire Alarm Interface** | Dry trigger input | |
| **Visual Indicators** | AC input and DC output LED indicators | |
| **Enclosure Dimensions** | 13 ½" (W) × 13" (H) × 3 ¼" (D) | |
| **Norm Conformity** | UL Listed for Access Control Systems (UL294), ULC Listed - CSA Standard C22.2 | |

### 10PSVR5T

| | |
|---|---|
| **Input** | 24 VAC or 24 VDC |
| **Output** | 5 VDC (VR1TM5) or 12 VDC output.<br>Filtered and electronically regulated output<br>Built-in overload protection |
| **Visual Indicators** | Power LED indicator |
| **Features** | Modular connector/cable assembly facilitates ease of wiring<br>Compact design allows for integration in a wide range of camera housings |
| **Enclosure Dimensions** | |
| VR5T / VR5BT | 3 ⅜" (W) × 1 ⅛" (H) × 2 ½" (D) |
| All Other Units | 1 ⅝" (W) × 1" (H) × 2 ⅜" (D) |
| **Degree of Protection** | CE |

### 10PSMDR2024

| | |
|---|---|
| **Input** | |
| Voltage Range | 85 – 264 VAC, 120 – 370 VDC |
| Frequency Range | 47 – 63 Hz |
| **Output** | |
| DC Voltage | 24 V |
| Rated Current | 1A |
| Rated Power | 24 W |
| **Enclosure Dimensions** | ⅞" (W) × 3 ½" (H) × 4" (D) |

## PRODUCT SERIES

| | |
|---|---|
| **10PS12-24** | UL / ULC Listed power supply |
| **10PS12-24D** | UL / ULC Listed power supply with backup circuit (1.75 A)<br>*battery NOT included* |
| **10PSMDR2024** | DIN rail power supply,<br>100 – 240 VAC / 24 VDC |
| **10PSVR5T** | Voltage regulator, 24 VAC / 24 VDC |
| **1012VAC** | 12 VAC (20 VA) transformer |
| **1024VAC** | 24 VAC (40 VA) transformer |
| **10PSST242** | Plug-in power supply |

# WHERE TO FIND OUR SOLUTIONS

All over the world, people pass through automatic doors, gates and other transportation equipment every day. BEA offers a wide variety of convenient, safe and reliable solutions for on- and off-door applications. No matter the environment, sensing solutions can reduce energy costs, protect equipment and increase accessibility.

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