



**BEA AMERICAS**

BEAinc.com



CREATING A  
CONVENIENT, SAFE,  
AUTOMATED WORLD

PRODUCT CATALOG | 2019

INTRODUCING



# LZR<sup>®</sup>-FLATSCAN SW

NEXT GENERATION  
SWING DOOR SAFETY SENSOR

SEE PAGES 24 – 25  
FOR MORE  
INFORMATION



HINGE AREA  
COVERAGE

DOOR LEAF  
COVERAGE



FEWER  
COMPONENTS



FAST  
INSTALLATION



HAND GESTURE  
SETUP™

The image shows the exterior of a modern building with a tan-colored facade and large windows. The letters "BEA" are mounted on the building in large, white, three-dimensional block letters. The sky is blue with some white clouds. A dark blue geometric shape is overlaid on the right side of the image.

# BEA

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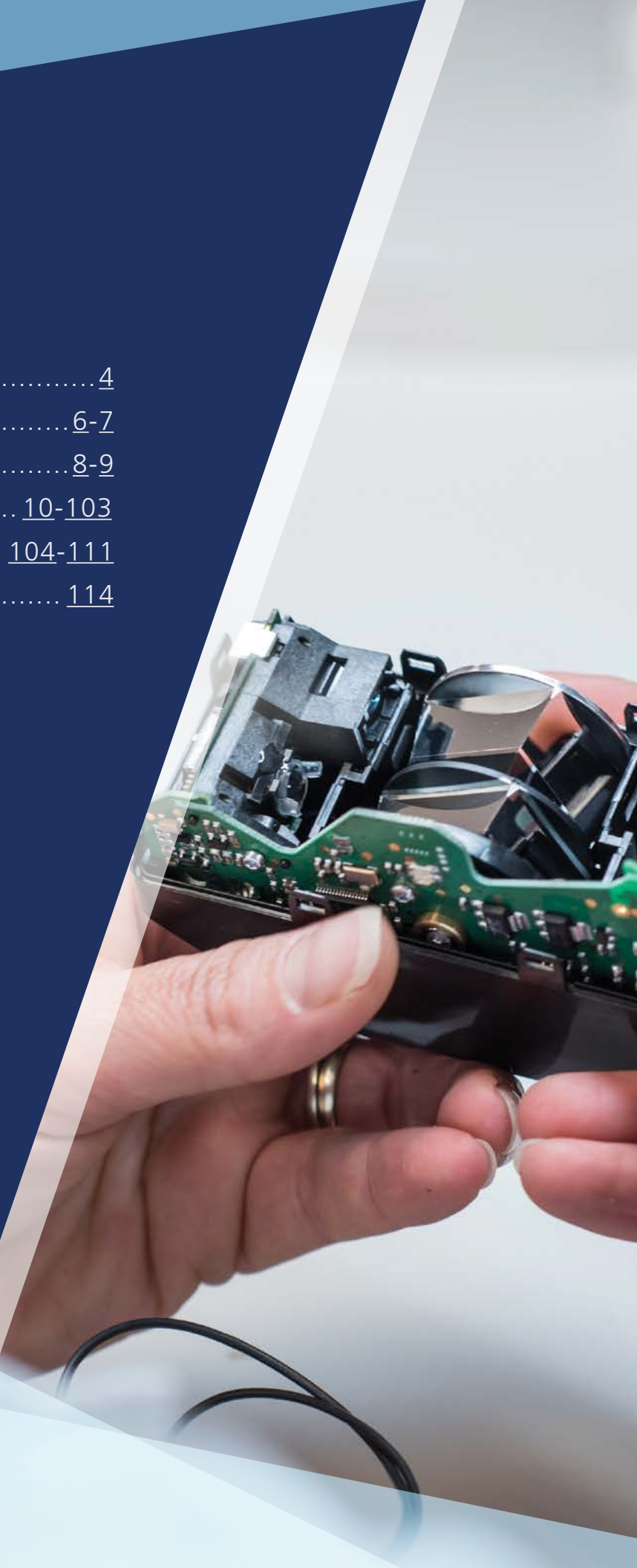
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# TECHNOLOGIES



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



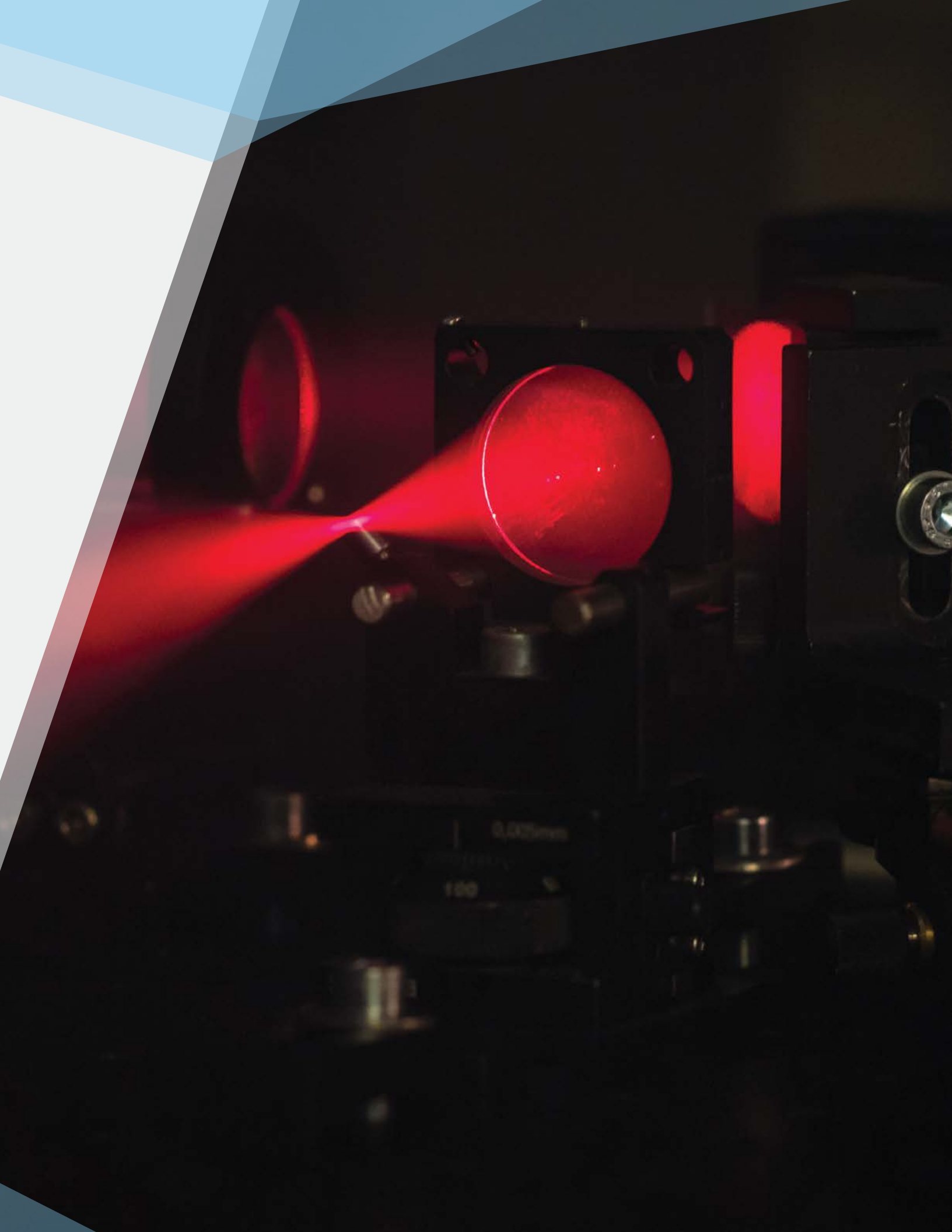
**CAPACITIVE** technology detects close-range electrically charged objects. A small voltage is applied to a conductive surface, resulting in a uniform electrostatic detection field. When a conductor, such as the human hand, enters this field, detection occurs.



**RADIO CONTROL FREQUENCY** 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** 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.



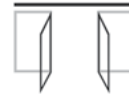
# FIND YOUR APPLICATION

## PEDESTRIAN SENSING SOLUTIONS

Sensing technology that maximize the convenience and safety of people moving in, out and through a building.



SLIDING DOORS



SWINGING DOORS



REVOLVING DOORS



LOW ENERGY DOORS



KNOWING ACT DEVICES



SPEED LANES & TURNSTILES



AUTOMATED WINDOWS

## INDUSTRIAL AUTOMATION SOLUTIONS

Sensing technology that improves vehicle flow, as well as the convenience and protection of people in industrial environments.



HIGH PERFORMANCE DOORS



COMMERCIAL DOORS



LOADING DOCKS



WAREHOUSING

## PEOPLE COUNTING SOLUTIONS

Sensing systems that count, record and analyze pedestrian traffic flows to maximize the efficiency of a building's setup and ensure that inventory placement is maximized.

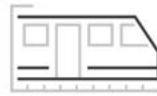


PEOPLE COUNTING



## PUBLIC TRANSPORTATION SOLUTIONS

Sensing technology that maximize the safety and automation of people and equipment moving within and throughout mass transit applications.



TRAIN, TRAM &  
SUBWAY DOORS



BUS  
DOORS



PLATFORM  
SCREEN DOORS

## VEHICLE SENSING SOLUTIONS

Sensing solutions developed for the recognition of motorized vehicles to improve the automation, safety and classification of vehicular traffic.



GATES



BARRIERS



TOLL  
GATES



VEHICLE  
CLASSIFICATION



PARKING

## SECURITY & ACCESS SOLUTIONS

Integrated systems that enhance and control access within industrial and pedestrian environments.



REQUEST-  
TO-EXIT



ACCESS  
CONTROL



PERIMETER  
PROTECTION



ARTWORK  
PROTECTION

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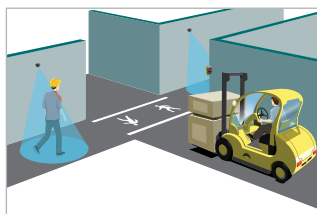


## COLIBRI ONE

Unidirectional motion sensor  
for off-door applications

### FEATURES & BENEFITS

- Adjustable sensitivity settings for creation of customized sensing patterns
- Lateral angle adjustment for ceiling, wall and low level mount versatility
- Compact size provides flexibility in mounting
- Pairs with LED Signal Lights for warning indication applications



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
<b>Detection Mode</b>	Motion
<b>Mounting Height</b>	72 – 120" (6 – 10')
<b>Transmitter Frequency</b>	24.150 GHz
<b>Transmitter Radiated Power</b>	< 20 dBm EIRP
<b>Transmitter Power Density</b>	< 5 mW / cm <sup>2</sup>
<b>Output</b>	Solid-state-relay (free of potential change-over contact)
Max. Contact Current	100 mA
Max. Contact Voltage	35 VDC / 24 VAC
<b>Min. Detection Speed</b>	2 in / s (measured in sensor axis)
<b>Supply Voltage</b>	12 – 24 VDC 30% / -10%
<b>Mains Frequency</b>	50 – 60 Hz
<b>Max. Power Consumption</b>	< 2 W
<b>Temperature Range</b>	-4 – 131 °F
<b>Tilt Angles</b>	0° – 90° vertical; -30° – 30° lateral
<b>Dimensions</b>	3.15" (W) × 2.36" (H) × 2.17" (D)
<b>Material</b>	ABS & Polycarbonate
<b>Weight</b>	5 oz
<b>Cable Length</b>	96" (8')
<b>Degree of Protection</b>	IP54
<b>Norm Conformance</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC

### PRODUCT SERIES

P/N	Description
<b>10COLIBRI</b>	Unidirectional motion sensor for off-door applications



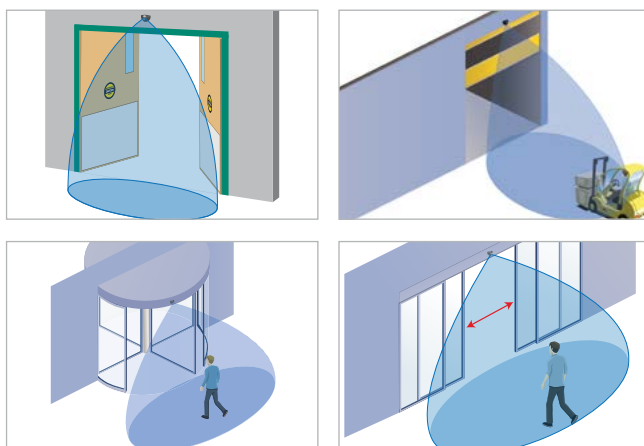
## EAGLE FAMILY

Motion sensor  
for automatic doors

MOTION  
SENSORS

### FEATURES & BENEFITS

- Energy savings due to unidirectional detection capability
- Narrow and wide antennas included
- Immunity settings can be adjusted to reduce unwanted detections caused by rain, snow and header vibrations
- Motion detection feature capable of detecting traffic moving as slow as two inches per second
- Compact, low profile design



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
<b>Detection Mode</b>	Motion
<b>Transmitter Frequency</b>	24.150 GHz
<b>Transmitter Radiated Power</b>	< 20 dBm EIRP
<b>Transmitter Power Density</b>	< 5 mW / cm <sup>2</sup>
<b>Min. Detection Speed</b>	2 in / s (measuring based on optimal conditions)
<b>Mounting Height</b>	
EAGLE	72 – 156" (6 – 13')
EAGLE HM	156 – 198" (13 – 16.5')
<b>Supply Voltage</b>	12 – 24 VAC ±10%; 12 – 24 VDC 30% / –10%
<b>Mains Frequency</b>	50 – 60 Hz
<b>Maximum Power Consumption</b>	< 2 W
<b>Output</b>	Relay (free of potential change-over contact)
Max. Contact Current	1 A (resistive)
Max. Contact Voltage	42 VAC / VDC
Max. Switching Power	30 W (DC) / 60 VA (AC)
<b>Cable Length</b>	
EAGLE	96" (8')
EAGLE HM	96" (8')
<b>Degree of Protection</b>	IP54
<b>Tilt Angles</b>	0 – 90° vertical; -30 – 30° lateral
<b>Norm Conformance</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; LVD 2006 / 95 / EC RoHS 2 2011 / 65 / EU

### PRODUCT SERIES

P/N	Description
<b>10EAGLE</b>	Flat antenna motion detector
<b>10EAGLE1HM</b>	Industrial motion sensor - up to 16.5' mounting height
<b>10ERC</b>	Deluxe EAGLE rain cover
<b>10ECA</b>	EAGLE ceiling adapter
<b>10EMB</b>	EAGLE mounting bracket
<b>10ERA</b>	Standard rain cover
<b>10EQD</b>	EAGLE quick disconnect harness (48")
<b>10EAGLESPACER</b>	Spacer for bi-fold applications
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>REQUIRED FOR ALL SENSOR ADJUSTMENTS</b>
<b>20.0027</b>	EAGLE 4-conductor cable (6' bundle)
<b>30.0407</b>	EAGLE 5-pin connector
<b>70.0164</b>	EAGLE bezel to cover antenna
<b>70.0167</b>	EAGLE cover with light pipe
<b>70.0173</b>	EAGLE wide microwave antenna
<b>70.0182</b>	EAGLE narrow microwave antenna

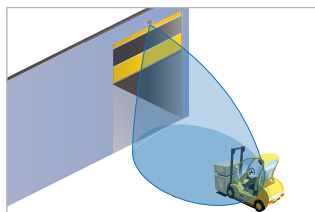
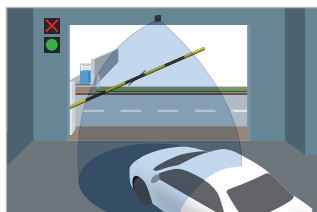
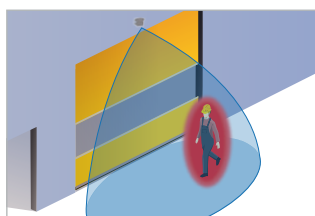


## FALCON FAMILY

Motion sensor for industrial doors, gates and warning indication

### FEATURES & BENEFITS

- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Six modes of detection filtering for pedestrian and parallel traffic rejection
- FALCON family provides three different models with various mounting heights and detection zones (see technical specifications)
- Remote control programming enables user to quickly and safely make changes from the ground
- Tilt angle from zero to 180 degrees
- NEMA 4 rated enclosure



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion
<b>Detection Zone (W x D)</b>	
FALCON	156 x 192"; @ 192" (13 x 16' @ 16')
FALCON XL	156 x 78"; @ 98.4" (13 x 6.5' @ 8.2')
FALCON WIDE	360 x 132"; @ 252" (30 x 11' @ 21')
	Typical at 30° and field size 9
<b>Tilt Angles</b>	0 – 180°
<b>Output</b>	Relay (free of potential change-over contact)
Max. Contact Current	42 VAC / VDC
Max. Contact Voltage	1 A (resistive)
Adjustable Hold Time	30 W (DC); 60 VA (AC)
<b>Minimum Detection Speed</b>	2 in / s
<b>LEDs</b>	Green: Value indication Red: Detection state & parameter indication
<b>Mains Frequency</b>	50 – 60 Hz
<b>Supply Voltage</b>	12 – 24 VAC; ±10% 12 – 24 VDC; 30% / -10%
<b>Max Power Consumption</b>	< 2 W
<b>Mounting Height (WxD)</b>	
FALCON	138 – 276" (11.5 – 23')
FALCON XL	78 – 138" (6.5 – 11.5')
FALCON WIDE	138 – 252" (11.5 – 21')

### TECHNICAL SPECIFICATIONS CONT'D

<b>Dimensions</b>	3.75" (W) x 4.0" (H) x 5.0" (D)
<b>Materials</b>	ABS & Polycarbonate
<b>Temperature Range</b>	-22 – 140 °F
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Norm Conformance</b>	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC

### PRODUCT SERIES

P/N	Description
<b>10FALCON</b>	Industrial motion detector - 11.5 – 23' high mount
<b>10FALCONW</b>	Industrial motion detector with wide detection fields - 11.5 – 21' high mount
<b>10FALCONXL</b>	Industrial motion detector - 6.5 – 11.5' low mount
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>RECOMMENDED FOR ALL SENSOR ADJUSTMENTS</b>
<b>20.5365</b>	FALCON harness, 100' cable
<b>35.1240</b>	FALCON harness, 30' cable





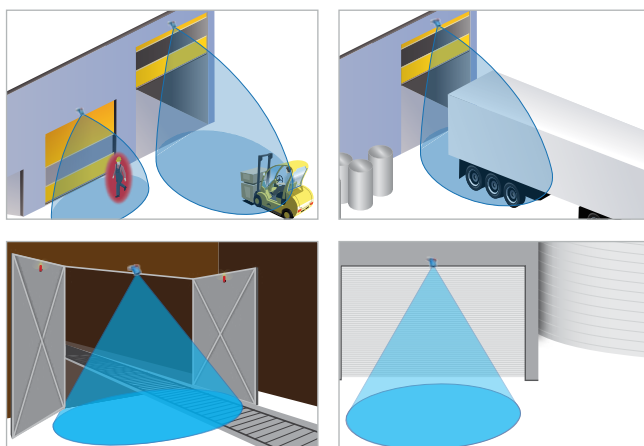
## FALCON EX FAMILY

Motion sensor with  
explosion-proof / flame-proof housing

**MOTION  
SENSORS**

### FEATURES & BENEFITS

- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Six modes of detection filtering for pedestrian and parallel traffic rejection
- Remote control programming enables user to quickly and safely make changes from the ground
- Explosion-proof / flame-proof housing weighs 11 pounds
- Adalet / Scott Fetzer Co., UL Listing #E81696
- Class 1, Div. 1 degree of protection



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion
<b>Detection Zone (W x D)</b>	
FALCON EX 100	156" x 192" @ 192" (13' x 16' @ 16')
FALCON EX XL 100	156" x 78" @ 98.4" (13' x 6.5' @ 8.2')
FALCON EX W 100	360" x 132" @ 252" (30' x 11' @ 21')
	Typical at 30° and field size 9
<b>Tilt Angles</b>	-90 – 30° in elevation
<b>Output</b>	Relay (free of potential change-over contact)
Max. Contact Current	42 VAC / VDC
Max. Contact Voltage	1 A (resistive)
Max. Switching Power	30 W (DC); 60 VA (AC)
<b>Minimum Detection Speed</b>	2 in / s
<b>LED Signals</b>	Green: Value indication Red: Detection state & parameter indication
<b>Mains Frequency</b>	50 – 60 Hz
<b>Supply Voltage</b>	12 – 24 VAC; ±10% 12 – 24 VDC; 30% / -10%
<b>Maximum Power Consumption</b>	< 2 W

### TECHNICAL SPECIFICATIONS CONT'D

<b>Mounting Height</b>	
FALCON EX 100	138 – 276" (11.5 – 23')
FALCON EX XL 100	78 – 138" (6.5 – 11.5')
FALCON EX W 100	138 – 252" (11.5 – 21')
<b>Dimensions (Housing &amp; Bracket)</b>	7.5" (W) x 5.5" (H) x 9.0" (D)
<b>Electrical Access NPT Pipe Thread</b>	3/4"
<b>Weight</b>	11 lbs
<b>Cable Length</b>	100' or 30'
<b>Housing / Bracket Material</b>	Copper-free Aluminum / Aluminum
<b>Temperature Range</b>	-22 – 140° F
<b>Degree of Protection (Housing)*</b>	UL Class I, Div. 1, Groups B, C, D; Class II, Div. 1 & 2, Groups E, F, G; Class III; CENELEC: EExd IIC; NEMA 4X, IP66
<b>Norm Conformance</b>	R&TTE: 1999 / 5 / EC; EMC: 2004 / 108 / EC

See page 14 for Product Series



## FALCON EX FAMILY

Motion sensor with  
explosion-proof / flame-proof housing

### PRODUCT SERIES

P/N	Description
<b>10FALCONEX100</b>	Standard mounting heights with 100' cable, 11.5 – 23'
<b>10FALCONEXW100</b>	Wide detection fields with 100' cable
<b>10FALCONEXXL100</b>	Low mounting heights, 6.5 – 11.5', 100' cable included

### PRODUCT SERIES CONT'D

P/N	Description
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>RECOMMENDED FOR ALL SENSOR ADJUSTMENTS</b>
<b>20.5365</b>	FALCON harness, 100' cable
<b>35.1240</b>	FALCON harness, 30' cable



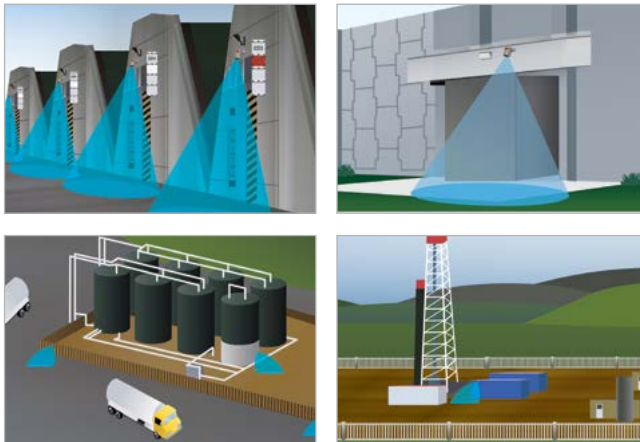
## PHOENIX EX™ FAMILY

Motion sensor with  
explosion-proof / flame-proof housing  
for intrusion protection

### FEATURES & BENEFITS

- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Integrated tamper alert switch and end-of-line resistors
- Optional remote control programming for ease of installation
- Explosion-proof / flame-proof housing weighs 11 pounds
- Tilt adjustment angle: -90 to 30 degrees in elevation
- Remote control programming enables user to quickly and safely make changes from the ground

**CONTACT YOUR BEA SALES REPRESENTATIVE FOR  
PHOENIX EX™ ORDERING INFORMATION.**



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion
<b>Anti-tamper Feature</b>	Tamper alert via output
<b>Detection Zone (W x D)</b>	
Standard	156" x 192" @ 192" (13' x 16' @ 16')
Low Mount	156" x 78" @ 98.4" (13' x 6.5' @ 8.2')
Wide Pattern	360" x 132" @ 252" (30' x 11' @ 21')
<b>Output*</b>	Relay (free of potential change-over contact)
Max. Contact Current	42 VAC / VDC
Max. Contact Voltage	1 A (resistive)
Max. Switching Power	30 W (DC); 60 VA (AC)
<b>End-of-Line Resistors**</b>	Default
Resistor 1	No Value
Resistor 2	No Value
<b>Minimum Detection Speed</b>	2.2 in / s
<b>LED Signals</b>	Green: Value indication upon query Red: Detection state & parameter indication
<b>Supply Voltage</b>	12 – 24 VAC; ±10% (50 – 60 Hz) 12 – 24 VDC; 30% / -10%
<b>Maximum Power Consumption</b>	< 2 W

### TECHNICAL SPECIFICATIONS CONT'D

<b>Electrical Access</b>	¾" NPT pipe thread
<b>Cable Length</b>	30 or 100' (default)
<b>Mounting Height</b>	
Standard	138 – 276" (11.5 – 23')
Low Mount	84 – 138" (6.5 – 11.5')
Wide Pattern	138 – 252" (11.5 – 21')
<b>Dimensions (Housing &amp; Bracket)</b>	7.5" (W) x 5.5" (H) x 9.0" (D)
<b>Weight</b>	11 lbs
<b>Housing / Bracket Material</b>	Copper-free Aluminum / Aluminum
<b>Temperature Range</b>	-22 – 140 °F
<b>Degree of Protection (Housing)***</b>	UL Class I, Div. 1, Groups B, C, D; Class II, Div. 1 & 2, Groups E, F, G; and Class III; Class I, Zone 1 AEx d IIC; Ex d IIC; NEMA 4X rated; IP66; UL 1203; FM 3615 CAS C22.2 No. 30; UL 60079-0 / UL 60079-1; CAS 60079-0 / CSA 60079-1; ATEX Directive 94 / 9 / EC; UL 50; IEC 60529
<b>Norm Conformance</b>	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC <b>FM: Approved Instrument Housing</b>

\*Output ratings may vary depending on optional end-of-line resistor values

\*\*End-of-line resistor values can be ordered to custom specifications to meet application requirements

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



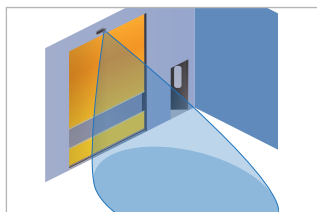
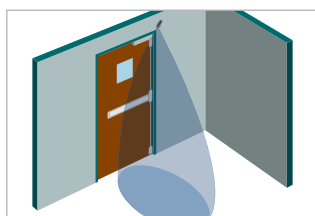


## SPARROW

Variable mount  
industrial motion sensor

### FEATURES & BENEFITS

- Mounting height from 78 to 240 inches (6.5 to 20 feet)
- Ten sensitivity settings to optimize the detection zone
- IP64 rated enclosure for industrial and harsh environments
- Immunity settings can be adjusted to reduce unwanted detections caused by rain, snow and header vibrations



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion
<b>Tilt Angles</b>	0 – 90° vertical; -120 – 120° lateral
<b>Output</b>	Relay (free of potential change-over contact)
Max. Contact Current	42 VAC – 60 VDC
Max. Contact Voltage	1 A (resistive)
Adjustable Hold Time	30 W (DC) / 60 VA (AC)
<b>Minimum Detection Speed</b>	2 in / s (measured in the sensor axis)
<b>Mains Frequency</b>	50 – 60 Hz
<b>Supply Voltage</b>	12 – 24 VAC ±10% 12 – 24 VDC 30% / -10%
<b>Maximum Power Consumption</b>	< 2 W
<b>Mounting Height</b>	78 – 240" (6.5 – 20')
<b>Dimensions</b>	2.25" (W) × 5.51" (H) × 2.17" (D)
<b>Material</b>	ABS
<b>Color</b>	Black
<b>Weight</b>	5.8 oz
<b>Cable Length</b>	360" (30')
<b>Temperature Range</b>	-22 – 140 °F

### TECHNICAL SPECIFICATIONS CONT'D

<b>Degree of Protection</b>	IP64
<b>Norm Conformance</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC

### PRODUCT SERIES

P/N	Description
<b>10SPARROW</b>	Variable mount motion sensor
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS



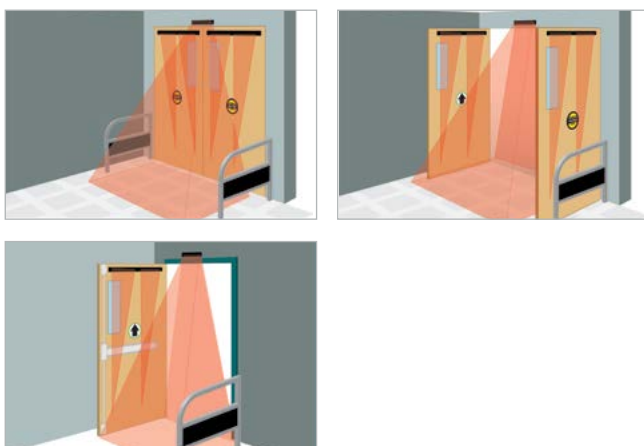
## BODYGUARD-T

Overhead presence sensor  
for automatic doors

### FEATURES & BENEFITS

- Versatile sensor can be used on single swing, simultaneous pair, dual egress and folding doors when coupled with an interface / lockout device
- Adjustable tilt angle from zero to 10 degrees
- Separate pattern width, depth and sensitivity for open and closed door states offers maximum flexibility

PRESENCE  
SENSORS

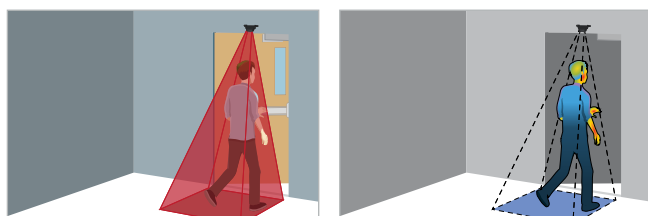


### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared
<b>Detection Mode</b>	Presence
<b>Installation Height</b>	Variable 108" max (9') recommended 78 – 96" (6.5 – 8')
<b>Mounting Angles</b>	
BODYGUARD-T Only	5°, 10° ( factory default setting: 5° )
With Bodymount	0°, 5°, 10°
<b>Power Supply</b>	12 – 24 VAC / DC ±10%
<b>Mains Frequency</b>	50 – 60 Hz
<b>Output</b>	
Max. Contact Current	1 A
Max. Contact Voltage	60 VDC / 125 VAC
Max Power Supply	30 W (DC), 60 VA (AC)
<b>Relay Hold Time</b>	0.5 – 9 s
<b>Operating Temperature</b>	-22 – 140 °F
<b>Immunity</b>	Immune to electrical and radio frequency interference
<b>Cable</b>	48" (4') - 6-conductor cable
<b>Weight</b>	1lb. 11 oz.
<b>Dimensions</b>	11.8" (W) × 1.9" (H) × 1.9" (D)
<b>Material</b>	Aluminum & ABS plastic
<b>Housing</b>	Black anodized aluminum

### PRODUCT SERIES

P/N	Description
<b>10BODYGUARDT</b>	Header mounted safety sensor
<b>10BODYMNT</b>	Spacer for BODYGUARD-T
<b>10BQD</b>	Quick disconnect for BODYGUARD-T cable (78")
<b>10CAPKIT</b>	(1) left / (1) right end cap and mounting screws
<b>10HORTONSSHARN</b>	BODYGUARD-T / SUPERSKAN-T relay harness for use with Horton Control
<b>10LO21 FAMILY</b>	Series of lock-out modules See page 47 for more information
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL
<b>10URC</b>	Universal rain cover for IXIO and BODYGUARD-T
<b>15.0075</b>	Harness for LO21 (B, K, P, U)
<b>15.0082</b>	Harness for LO21 (S)
<b>15.5083</b>	"Y" wiring harness for dual egress
<b>20.2015</b>	BODYGUARD-T light pipe and cover for light pipe
<b>20.5384</b>	8-conductor harness, 4.5'
<b>30.0345</b>	7-position pin connector
<b>41.3879</b>	Adjustable mounting clips for PCB
<b>70.0045</b>	Extrusion housing cut to 10.25"
<b>70.0207</b>	BODYGUARD-T lens cut to 4.875"



## FLY KIT

Compact, passive infrared  
request-to-exit sensor

### FEATURES & BENEFITS

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

### TECHNICAL SPECIFICATIONS

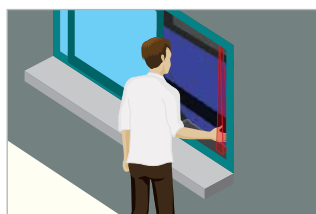
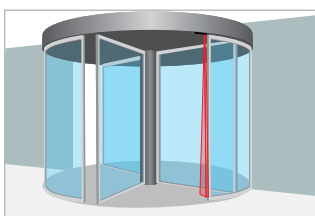
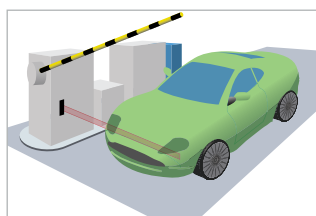
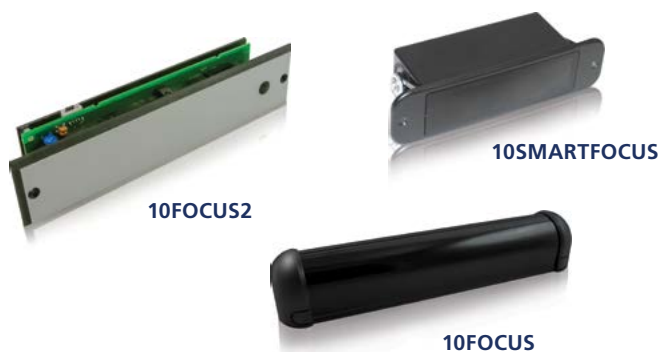
<b>Technology</b>	Passive Infrared
<b>Mounting Height</b>	Recommended: 78 – 96" (6.5 – 8') Maximum: 120" (10')
<b>Mounting Angles</b>	0 – 180°
<b>Power Supply</b>	12 – 24 VAC; $\pm 10\%$ ; (50/60 Hz) 12 – 24 VDC; $-10\%$ / 30%
<b>Current Consumption</b>	< 10 mA (20 mA if the relay output is activated)
<b>Contact Rating</b>	1 A / 75 VDC or 50 VAC potential free contact NO / NC
<b>Optical Characteristics</b>	Passive infrared with four elements 15 Fresnel lenses with full independent masking possibilities
<b>Warm-up Time</b>	10 s
<b>Response Time</b>	Maximum: 200 ms
<b>Relay Hold Time</b>	
Standard FLY	0.5 or 2 s
FLY Extended Relay Time	15 or 30 s
<b>Operating Temperature</b>	-22 – 140 °F (-30 – 55 °C)
<b>Cable</b>	108" (9') 4-conductor cable with 5-pin connector
<b>Weight</b>	1.4 oz (40 g)
<b>Sensor Dimensions</b>	4.0" (W) $\times$ 1.8" (H) $\times$ 1.0" (D)

### PRODUCT SERIES

P/N	Description
<b>10FLYKITB</b>	(1) Passive infrared detector for request-to-exit applications - black
	(1) Surface adapter - black
	(1) Flush mounted ceiling adapter - black
<b>10FLYKITBERT</b>	(1) Passive infrared detector with extended relay time - black
	(1) Surface adapter - black
	(1) Flush mounted ceiling adapter - black
<b>70.0011</b>	22 gauge 4-conductor cable <b>Sold by the foot</b>

## FOCUS FAMILY

Focused active infrared  
presence sensors



### TECHNICAL SPECIFICATIONS

#### 10FOCUS & 10FOCUS2

<b>Technology</b>	Focused Active Infrared
<b>Detection Mode</b>	Presence
<b>Power Supply</b>	24 VAC / VDC $\pm 10\%$
<b>Current Consumption</b>	60 mA (On); 30 mA (Off)
<b>Output Interface; relay</b>	Relay; max. contact rating is 1 A @ 30 V (resistive)
<b>Detection Range</b>	0 – 8.2'
<b>Distance Adjustment</b>	2 – 8', rotating cam with linear adjustment
<b>Detection Time</b>	< 50 ms
<b>Detection Signal Duration</b>	Infinite Presence Detection
<b>LED Indications</b>	Green LED = Detection
<b>Operating Temperature Range</b>	-30 – 140 °F
<b>Connection to Controller</b>	5-conductor cable
<b>Relay Output</b>	NO or NC

#### 10SMARTFOCUS

<b>Technology</b>	Focused active Infrared
<b>Detection Mode</b>	Presence detection by distance measurement
<b>Detection Zone (W x D)</b>	1.38" x 2.76" @ 7.25'
<b>Light Indicator</b>	Red LED: is ON during detection Orange LED: flashes 1x after power on

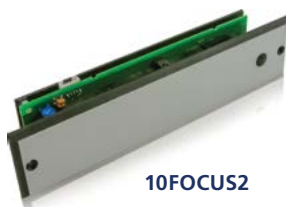
### FEATURES & BENEFITS

- Low profile, recessed-mount enables FOCUS 2 and SMART FOCUS to protect pedestrians from contact with the moving door
- SMART FOCUS is fully monitored (not the FOCUS or FOCUS 2)
- SMART FOCUS has push button setup
- Ideal for drive-thru / pass-thru applications
- Horizontal mount for use in gate and barrier applications

### TECHNICAL SPECIFICATIONS CONT'D

<b>Response Time</b>	64 ms
<b>Mounting Height</b>	2 – 10'
<b>Supply Voltage</b>	12 – 24 VAC / VDC -5% / 10%
<b>Mains Frequency</b>	50 – 60 Hz
<b>Max. Current Consumption</b>	120 mA @ 24 VAC / 80 mA @ 24 VDC
<b>Standard Output</b>	Relay (free of potential contact) Max. Contact Voltage 42 VAC / DC Max. Contact Current 1 A (resistive) Max. Switching Power 30 W (DC) / 42 VA (AC)
<b>Monitoring Input</b>	1 optocoupler (free of potential contact) Max. contact voltage 30 V Voltage threshold High state: > 10 V Low state: < 1 V
<b>Hold Time</b>	0.5 s
<b>Reflectivity</b>	min. 10% at IR-wavelength of 850nm
<b>Temperature Range</b>	-13 – 131 °F (-25 – 55 °C); 0 – 95% rel. humidity, non-condensing
<b>Degree of Protection</b>	IP53
<b>Dimensions</b>	5.67" (W) x 1.57" (H) x 1.97" (D)
<b>Length of main cable</b>	8.2'
<b>Norm Conformity</b>	EN 61000-6-2; EN 61000-6-3; EN 50581; EN 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)

See page 20 for Product Series



10FOCUS2



10SMARTFOCUS



10FOCUS

## FOCUS FAMILY

Focused active infrared  
presence sensors

### PRODUCT SERIES

P/N	Description
<b>10FOCUS</b>	Surface, distance / measuring active infrared presence sensor
<b>10FOCUS2</b>	Recessed distance measuring active infrared presence sensor
<b>10SMARTFOCUS</b>	Recessed, distance measuring active infrared presence sensor - adapts to environment by push of a button
<b>10SMARTFOCUS SMA</b>	Surface mount adapter for SMART FOCUS sensor

### PRODUCT SERIES CONT'D

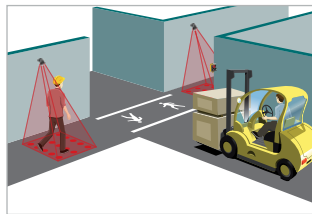
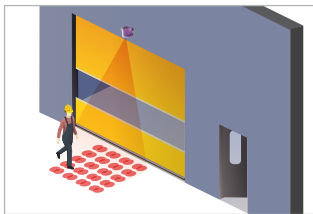
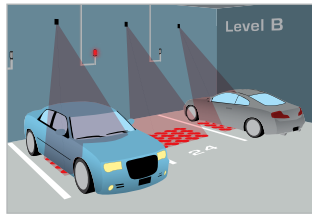
P/N	Description
<b>15.0118</b>	FOCUS harness - 240"
<b>30.0405</b>	FOCUS harness - 72"
<b>35.1128</b>	6-conductor cable with socket for SMART FOCUS
<b>70.0068</b>	FOCUS harness - 48"
<b>70.0138</b>	Lens extrusion, order by inch (9" needed for 10FOCUS lens replacements)





## IS40P

Presence sensor with  
virtual loop functionality



### FEATURES & BENEFITS

- Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment
- Up to seven object target sizes
- Remote control programming enables user to quickly and safely make changes from the ground (sold separately)
- Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light and sun
- Adjustable learn time option of 30 seconds to infinity (no learn)

PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared
<b>Detection Mode</b>	Presence
<b>Mains Frequency</b>	50 – 60 Hz
<b>Power Consumption</b>	< 3.5 W
<b>Relay Output</b>	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)
<b>Supply Voltage</b>	12 – 24 VAC ±10% 12 – 24 VDC 10% / -3%
<b>Temperature Range</b>	-22 – 140 °F
<b>Tilt Angle</b>	15 – 45°
<b>LED Signal</b>	Red (Presence Relay) Green (Indicator)
<b>Transmitter Frequency / Wavelength</b>	875 nm
<b>Transmitter Power Density</b>	< 250 mW / m <sup>2</sup>
<b>Detection Zone (W x D)</b>	10 x 10' @ max. mounting height of 16' (emitting spots*)
<b>Output Hold Time</b>	0.5 s
<b>Min. Detection Speed</b>	0 in / s to activate detection
<b>Reaction Time</b>	250 ms
<b>Mounting Height</b>	96 – 192" (8 – 16')

### TECHNICAL SPECIFICATIONS CONT'D

<b>Humidity</b>	0 – 95% non-condensing
<b>Weight</b>	14 oz
<b>Dimensions</b>	3.8" (W) x 4.0" (H) x 5.0" (D)
<b>Material</b>	ABS & Polycarbonate
<b>Cable Length</b>	32'
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Norm Conformance</b>	EMC: 2004 / 108 / EEC R&TTE: 1999 / 5 / EC

### PRODUCT SERIES

P/N	Description
<b>10IS40P</b>	Industrial sensor utilizing active infrared presence detection
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>RECOMMENDED FOR ALL SENSOR ADJUSTMENTS</b>
<b>10SPOTFINDER</b>	Active infrared spotfinder
<b>35.1195</b>	8-pin conductor cable (30')



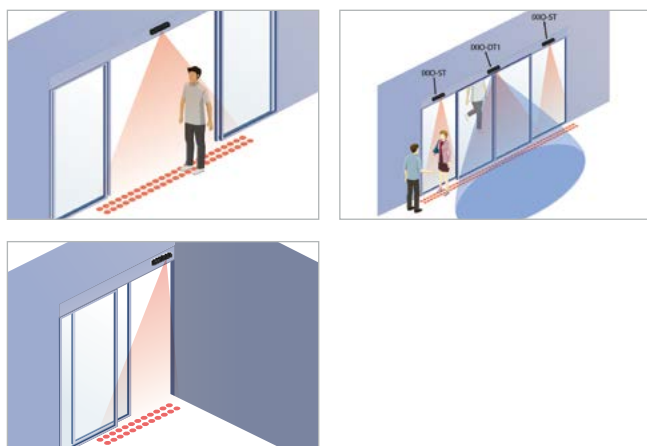
## IXIO-ST

Presence sensor for  
automatic sliding doors



### FEATURES & BENEFITS

- Side-lite protection for reduced liability
- Two 24-spot, high-density, infrared safety curtains providing precise presence detection
- Four visible red alignment spots are projected on the ground to assist in precise IR curtain adjustment
- Intelligent programming and troubleshooting via a menu-driven LCD
- On-board microprocessor optimizes data analysis, monitors sensor performance and enables system integration
- Fully monitored internally, capable of external monitoring



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared	
<b>Detection Mode</b>	Presence	
<b>Spot Size</b>	2" x 2"	
<b>Max. Number of Spots</b>	24 per curtain	
<b>Max. Number of Curtains</b>	2	
<b>Output</b>	Electro-mechanical-relay (potential and polarity free)	Solid-state-relay (potential and polarity free)
Max. Contact Current	1 A	400 mA
Max. Contact Voltage	30 VDC	42 VDC
Hold Time	0.5 – 9 s	0.3 – 1 s
<b>Test Input</b>	N/A	Sensitivity: Low: <1 V; High: > 10 V (max.30 V) Response time on test request: typical: < 5 ms
<b>Supply Voltage</b>	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)	
<b>Power Consumption</b>	< 2.5 W	
<b>Mounting Height</b>	78 – 138" (6.5 – 11.5')	
<b>Temperature Range</b>	-13 – 131 °F 0 – 95% relative humidity, non condensing	
<b>Degree of Protection</b>	IP54	
<b>Applicable Directives</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; MD 2006 / 42 / EC; RoHS 2002 / 95 / EC	

### TECHNICAL SPECIFICATIONS CONT'D

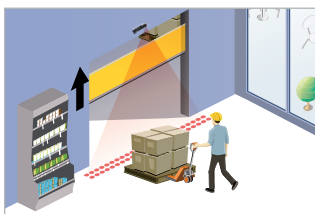
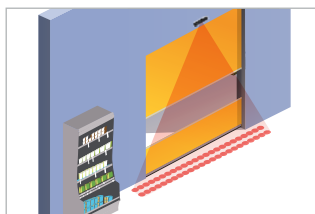
<b>Dimensions</b>	10.6" (W) x 2.27" (H) x 2.25" (D)
<b>Cable Length</b>	120" (10')
<b>Norm Conformance</b>	EN 12978, EN ISO 13849-1:2008 PL <<<c>>> CAT.2 (under the condition that the door control system monitors the sensor at least once per door cycle), IEC 61496-1:2012 ESPE Type 2, EN 16005: 2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4, BS 7036-1:1996 Chapter 8.1

### PRODUCT SERIES

P/N	Description
<b>10IXIOST</b>	Active infrared presence sensor for sliding doors
<b>10ICA</b>	IXIO ceiling accessory
<b>10IMB</b>	IXIO bracket accessory
<b>10IRA</b>	IXIO rain accessory
<b>10IXIOSPACER</b>	IXIO spacer, black
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>20.5349</b>	120" (10') wire harness
<b>20.5359</b>	360" (30') wire harness
<b>35.1286</b>	Black replacement cover
<b>35.1302</b>	White replacement cover
<b>35.1303</b>	Silver replacement cover

## IXIO-ST INDUSTRIAL

Safety sensor for  
small interior industrial doors



### FEATURES & BENEFITS

- Two 24-spot, high-density, infrared safety curtains providing precise presence detection
- Four visible red alignment spots are projected on the ground to assist in precise IR curtain adjustment
- Intelligent programming and troubleshooting via a menu-driven LCD
- On board microprocessor optimizes data analysis, monitors sensor performance and enables system integration
- Fully monitored internally, capable of external monitoring
- 360 inch (30 foot) cable for larger / higher doors

PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared	
<b>Detection Mode</b>	Presence	
<b>Spot Size</b>	2 x 2"	
<b>Max. Number of Spots</b>	24 per curtain	
<b>Max. Number of Curtains</b>	2	
<b>Output</b>	Electro-mechanical-relay (potential and polarity free)	Solid-state-relay (potential and polarity free)
Max. Contact Current	1 A	400 mA
Max. Contact Voltage	30 VDC	42 VDC
Hold Time	0.5 – 9 s	0.3 – 1 s
<b>Test Input</b>	N/A	Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Response time on test request: typical: < 5 ms
<b>Supply Voltage</b>	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)	
<b>Power Consumption</b>	< 2.5 W	
<b>Mounting Height</b>	78 – 138" (6.5 – 11.5')	
<b>Temperature Range</b>	-13 – 131 °F 0 – 95% relative humidity, non condensing	
<b>Degree of Protection</b>	IP54	
<b>Applicable Directives</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; MD 2006 / 42 / EC; RoHS 2002 / 95 / EC	

### TECHNICAL SPECIFICATIONS CONT'D

<b>Dimensions</b>	10.6" (W) x 2.27" (H) x 2.25" (D)
<b>Cable Length</b>	360" (30')
<b>Norm Conformance</b>	EN 12978, EN 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), IEC 61496-1:2012 ESPE Type 2, EN 16005: 2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4, BS 7036-1:1996 Chapter 8.1

### PRODUCT SERIES

P/N	Description
<b>10IXIOSTINDUS</b>	Active infrared safety sensor for small interior industrial doors
<b>10ICA</b>	IXIO ceiling accessory
<b>10IMB</b>	IXIO bracket accessory
<b>10IRA</b>	IXIO rain accessory
<b>10IXIOSPACER</b>	IXIO spacer, black
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL
<b>20.5349</b>	120" (10') wire harness
<b>20.5359</b>	360" (30') wire harness
<b>35.1286</b>	Black replacement cover
<b>35.1302</b>	White replacement cover
<b>35.1303</b>	Silver replacement cover

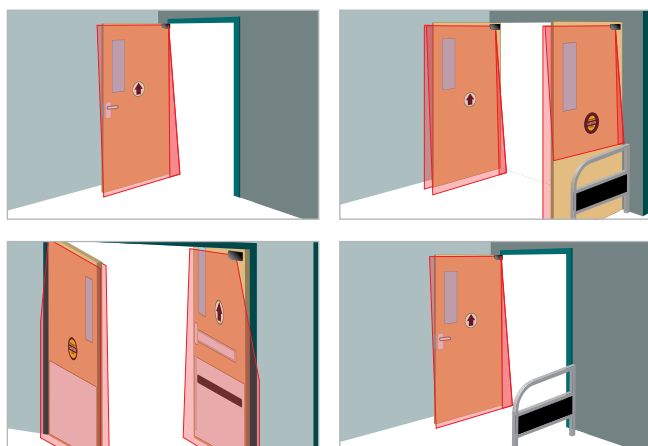


## LZR®-FLATSCAN SW

Stand-alone, door mounted safety sensor  
for swing doors

### FEATURES & BENEFITS

- LASER technology ensures independence of all types of flooring (pedi-mats, carpet, reflective flooring, wet surfaces, etc.) and the surrounding environment of the door (guiderails, walls, weather)
- Leading edge safety extends the detection area beyond the leading edge of the door for enhanced safety
- Easy door width programming using Hand Gesture Setup™ reduces configuration time
- LASER technology provides a reduced uncovered zone of down to ¾ inch
- Hub-less system offers fewer components for easier setup and installation



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight
<b>Detection Mode</b>	Presence
<b>Max. Detection Range</b>	13' (diagonal) with reflectivity of 2% (e.g. at W = 5' → max. H = 12'), see Page 15 of Users Guide
<b>Detection Area</b>	
Door Leaf Safety	90°
Pinch Zone Safety	16°
<b>Angular Resolution</b>	
Door Leaf Safety	1.3°
Pinch Zone Safety	0.2°
<b>Typ. Min. Object Size</b>	
Door Leaf Safety	4" @ 13' (in proportion to object distance, DIP 2 = ON)
Pinch Zone Safety	¾" @ 13' (in proportion to object distance, DIP 2 = ON)
<b>Emission Characteristics</b>	Wavelength 905 nm; max. output pulse power 25 W; Class 1
<b>Supply Voltage</b>	12 – 24 VDC ±15%
<b>Power Consumption</b>	≤ 2 W
<b>Response Time</b>	
Door Leaf Safety	max. 50 ms
Pinch Zone Safety	max. 90 ms
<b>Test Input</b>	30 VDC (max. switching voltage) low < 1 V      high > 10 V (voltage threshold)

### TECHNICAL SPECIFICATIONS CONT'D

<b>Output</b>	2 electronic relays (galvanic isolation - polarity free)
Max. Switching Voltage	42 VAC / VDC
Max. Switching Current	100 mA
<b>LED Signals</b>	Red = swing side detection Green = approach side detection Yellow = error
<b>Dimensions</b>	5 ½" (W) × 3 ⅓" (H) × 1.0" (D) (mounting bracket adds ¼")
<b>Material / Color</b>	PC/ASA / Black, White or Silver
<b>Tilt Angles</b>	2 – 10° (without mounting bracket)
<b>Degree of Protection</b>	IP54 (EN 60529)
<b>Temperature Range</b>	-22 – 140 °F (if powered)
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Min. Door Leaf Speed</b>	2° / s

See next page for Product Series



## LZR®-FLATSCAN SW

Stand-alone, door mounted safety sensor  
for swing doors

### PRODUCT SERIES

P/N	Description
<b>10LZRFLATSCAN-LELB</b>	Low energy safety system for left door mount, Black
<b>10LZRFLATSCAN-LELS*</b>	Low energy safety system for left door mount, Silver
<b>10LZRFLATSCAN-LELW*</b>	Low energy safety system for left door mount, White
<b>10LZRFLATSCAN-LERB</b>	Low energy safety system for right door mount, Black
<b>10LZRFLATSCAN-LERS*</b>	Low energy safety system for right door mount, Silver
<b>10LZRFLATSCAN-LERW*</b>	Low energy safety system for right door mount, White
<b>10LZRFLATSCAN-SWB</b>	Full energy swing door safety system, Black
<b>10LZRFLATSCAN-SWS*</b>	Full energy swing door safety system, Silver
<b>10LZRFLATSCAN-SWW*</b>	Full energy swing door safety system, White

### PRODUCT SERIES CONT'D

P/N	Description
<b>10LZRFLATSCAN-LB</b>	Left sensor, Black
<b>10LZRFLATSCAN-LS*</b>	Left sensor, Silver
<b>10LZRFLATSCAN-LW*</b>	Left sensor, White
<b>10LZRFLATSCAN-RB</b>	Right sensor, Black
<b>10LZRFLATSCAN-RS*</b>	Right sensor, Silver
<b>10LZRFLATSCAN-RW*</b>	Right sensor, White
<b>20.5416</b>	Master harness
<b>35.1329</b>	Slave harness
<b>70.5745</b>	Sentrex retrofit accessory
<b>70.5751</b>	Spacer, White
<b>70.5752</b>	Spacer, Silver
<b>70.5753</b>	Spacer, Black

\*Silver and white swing door safety systems are custom orders. Please contact your BEA representative for lead time information.





## LZR®-H100

LASER scanner for  
gate & barrier applications

PRESENCE  
SENSORS



### FEATURES & BENEFITS

- Two relays allow for activation via motion or presence
- Suitable for applications where cutting ground for loops is prohibited, impossible or expensive
- True presence-based detection which ensures accurate and immediate activation
- Ability to detect vehicle trajectory during approach and departure
- Maximum detection field of 9.6 × 9.6 meters (32 × 32 feet)
- Teach-in setup via walk path or remote control configuration

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Motion & Presence
<b>Max. Detection Field</b>	9.6 m × 9.6 m (32' × 32')
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	0.3516°
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; maximum output pulse power 75 W (CLASS 1)
Red Visible LASER	Wavelength 650 nm; maximum output CW power 3 mW (CLASS 3R)
<b>Supply Voltage</b>	10 – 35 VDC @ sensor side
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5 W
<b>Response Time</b>	Min. 20 ms; Max. 80 ms
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35 VDC / 24 VAC
Max. Switching Current	80 mA (resistive)
<b>LED-Signal</b>	1 Blue LED: power-on status 1 Orange LED: error status 2 Red / Green LEDs: detection/output status (green = no detection, red = detection)
<b>Dimensions</b>	
Housing	3 5/8" (W) × 2 3/4" (H) × 5" (D)
10LBA Mounting Bracket	+ 1/2"
<b>Cable Length</b>	33"
<b>Material</b>	PC / ASA
<b>Color</b>	Black

### TECHNICAL SPECIFICATIONS CONT'D

<b>Tilt Angle on Bracket</b>	-3 – 3°
<b>Rotation Angle on Bracket</b>	-5 – 5° (Lockable)
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	
Powered	-22 – 140 °F
Unpowered	14 – 140 °F
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Pollution on Front Screens</b>	Max. 30% ; Homogenous
<b>Norm Conformance</b>	IEC 61000-6-2; IEC 61000-6-3; IEC 60950-1; EN 60825-1 ISO 13849-1 (PL "d" CAT 2); IEC 62061 (SIL 2); IEC 61496-1 (Type 2)

### PRODUCT SERIES

P/N	Description
<b>10LZRH100</b>	LASER scanner with highly precise detection zone
<b>10LBA</b>	LZR mounting bracket accessory *SOLD SEPARATELY
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10PSMDR2024</b>	DIN Rail Power Supply, 100 – 240 VAC / 24 VDC Power Supply
<b>10PS12-24</b>	UL / ULC Listed power supply 12 / 24 VDC - 1.75 A
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>REQUIRED FOR ALL SENSOR ADJUSTMENTS</b>

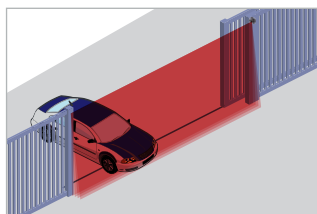


## LZR®-I30

LASER scanner for  
industrial automation

### FEATURES & BENEFITS

- Four curtains of detection each capable of 360 × 360 inches (30 × 30 feet)
- Detects objects as small as two inches at 30 feet away, depending on application
- Degree of protection: NEMA 4 / IP65
- Has the ability to ignore dynamic ground conditions and extreme weather
- Three visible LEDs for pattern alignment



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Motion / Presence (EN 12453 Typ. E)
<b>Max. Detection Range</b>	360" × 360" (30' × 30')
<b>Detection Plane</b>	4 curtains per sensor, curtain spread dependent on mounting height
<b>Remission Factor</b>	> 2%
<b>Emission Characteristics</b>	Wavelength 905 nm; maximum output pulse power 75 W (Class 1) IR LASER Wavelength 650 nm; maximum output CW power 3 mW (Class 3R) Red Visible LASER
<b>Supply Voltage</b>	10 – 35 VDC @ Sensor Terminal (to be operated from SELV compatible power supplies only)
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5 W
<b>Response Time</b>	Typ. 20 ms; max. 80 ms (+ output activation delay)
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free) Max. Switching Voltage 35 VDC / 24 VAC Max. Switching Current 80 mA (resistive)
<b>LED-Signal</b>	1 Blue LED: Status « Power-on » 1 Orange LED: Status « Error » 2 Bi-colored LEDs: Detection/Output Status (Green: no detection; Red: detection)
<b>Cable Length</b>	360" (30')
<b>Material</b>	PC / ASA
<b>Color</b>	Black

### TECHNICAL SPECIFICATIONS CONT'D

<b>Rotation Angle on Bracket</b>	±5° (Lockable)
<b>Tilt Angle on Bracket</b>	±3°
<b>Dimensions</b>	Housing 5.0" (W) × 2.75" (H) × 3.66" (D) 10LBA Mounting Bracket Adds 0.55"
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	-22 – 140 °F if powered 14 – 140 °F if unpowered
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Pollution on Front Screens</b>	Max. 30% ; Homogeneous
<b>Test Body Dimensions</b>	< 11.81" × 7.87" × 27.56" @ 276" (EN 12445 test body A)
<b>Norm Conformance</b>	2006 / 95 / EC: LVD; 2002 / 95 / EC: RoHS; 2004 / 108 / EC: EMC; 2006 / 42 / EC: MD; EN 12453:2000 chapter 5.1.1.6, chapter 5.5.1 Safety device E; EN 12978:2009; EN ISO 13849-1:2008 CAT2, PL "d"; EN 60529:2001; IEC 60825-1:2007; EN 60950-1:2005; EN 61000-6-2:2005; EN 61000-6-3:2006; IEC 61496-1:2009; EN 61496-3: 2008 ESPE Type 2; EN 62061:2005 SIL 2

See page 28 for Product Series



## LZR®-I30

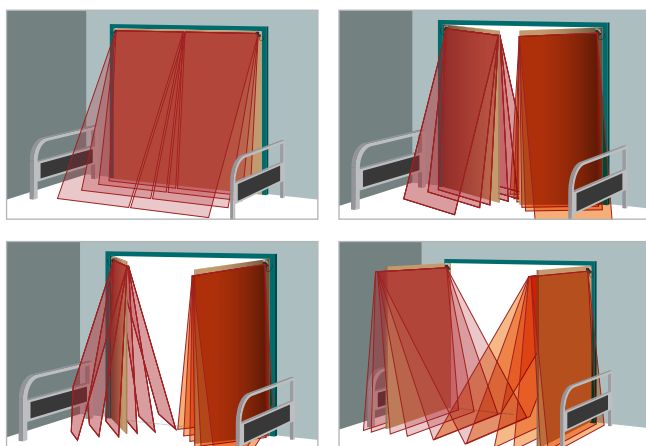
LASER scanner for  
industrial automation

### PRODUCT SERIES

P/N	Description
<b>10LZRI30</b>	LASER scanner with highly precise detection zone
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10LBA</b>	LZR mounting bracket accessory *SOLD SEPARATELY
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10PSMDR2024</b>	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply

### PRODUCT SERIES CONT'D

P/N	Description
<b>10PS12-24</b>	UL / ULC Listed power supply 12 / 24 VDC - 1.75 A
<b>10PSVR5T</b>	Voltage regulator, 24 VAC / 24 VDC
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>REQUIRED FOR ALL SENSOR ADJUSTMENTS</b>
<b>35.1242</b>	360" (30'), 8-conductor cable



## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Presence
<b>Min. / Max. Door Width</b>	20 – 48" (per door leaf) (measured from leading edge to sensor LED)
<b>Mounting Height</b>	75 – 98" (6.25 – 8.2') (measured from finished floor to sensor LED)
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	2.56°
<b>Test Body</b>	12" (W) x 28" (H) x 8.0" (D) (according to UL 325)
<b>Emission Characteristics</b>	
IR laser	Wavelength 905 nm; Maximum Output Pulse Power 35 W (Class 1)
<b>Supply Voltage</b>	12 – 30 VDC (15 W Class II)
<b>Power Consumption</b>	< 15 W
<b>Response Time</b>	Typ. 40 ms; Max. 80 ms
<b>Output Rating</b>	4 electro-mechanic relays (galvanic isolated - polarity free) All outputs Class 2 supply, 12 – 24 VAC, 12 – 30 VDC, Max. 15 W
<b>Input Rating</b>	2 optocouplers (galvanic isolated - polarity free) 12 – 24 VAC, 50 / 60 HZ, 12 – 30 VDC, Max. 15 W
<b>Test Input*</b>	8 – 15 VDC

## LZR®-MICROSCAN T

Standalone, door-mounted,  
swing door safety system

## FEATURES & BENEFITS

- Plug & play technology utilizing a centralized hub and intuitive LCD interface greatly reduces installation and setup time
- High resolution, self-adapting detection zones, coupled with reduced uncovered zones create the most accurate and reliable safety sensor
- On-board error log ensures easy technical support
- Fully monitored internally, capable of external monitoring
- Fire rated for up to three hours

PRESENCE  
SENSORS

## TECHNICAL SPECIFICATIONS CONT'D

<b>Temperature Range</b>	-13 – 121 °F (-25 – 55 °C)
<b>Degree of Protection</b>	Hub: IP20 / NEMA 1 Sensor: IP53 / NEMA 3
<b>Humidity</b>	0 – 95% Non-condensing
<b>Vibrations</b>	< 2 G
<b>Material</b>	PC / ASA
<b>Norm Conformance</b>	EN 60825-1-Eye-safety class 1 IR laser (905 nm), UL60730, UL 10B/C Fire Rated 3hrs (file #R39071)
<b>Mounting Angle (rotational)</b>	35° fixed
<b>Tilt Angle</b>	0 – 5° (for angles less than 5° contact Technical Support)
<b>Pollution on Front Screens</b>	Maximum 30%; Homogenous

\*See Application Notes or contact BEA for technical support.

See page 30 for Product Series, Sensor Kits  
and Optional Mounting Kits



AAADM



ANSI



AAADM Certified Technicians.  
Please contact BEA or consult  
price book for availability.



## LZR®-MICROSCAN T

Standalone, door-mounted,  
swing door safety system

PRESENCE  
SENSORS

### PRODUCT SERIES

P/N	Description
<b>10LZRMICROSCAN1T</b>	Single door kit (1) left sensor, (1) right sensor, (1) hub, (1) master harness, (1) slave harness, (1) door control harness, (1) home switch, (1) door loop / cap kit, (1) sensor spacer
<b>10LZRMICROSCAN1UT</b>	(1) 10LZRMICROSCAN1T, (1) 10LZRMICROSCAN-UKIT
<b>10LZRMICROSCAN2T</b>	Pair / Dual Egress door kit (2) left sensors, (2) right sensors, (1) hub, (2) master harnesses, (2) slave harnesses, (2) door control harnesses, (2) home switches, (2) door loops / cap kits, (2) sensor spacers
<b>10LZRMICROSCAN2UT</b>	(1) 10LZRMICROSCAN2T, (1) 10LZRMICROSCAN-UKIT
<b>10LZRMICROSCAN-UKIT</b>	Universal Accessory kit converts Single Door kit and Pair/Dual Egress Door kit into 10MICROSCAN1UT and 10MICROSCAN2UT. This kit includes: (1) power supply, (1) ON / OFF / HOLD OPEN switch

### OPTIONAL MOUNTING KITS

P/N	Description
<b>10MICROSCANMOUNT</b>	Center pivot door mounting kit includes: (1) Left mounting arm (1) Right mounting arm
<b>10MICROSCAN-Y</b>	Glass / Fire door mounting kit includes: (1) 20.5320 - "Y" cable LZR-MICROSCAN-T hub to LZR-MICROSCAN-T harness (1) 70.0202 - 26" standard door cord loop (1) 55.0001 - Door loop end cap for door frame

### REPLACEMENT COMPONENTS

P/N	Description
<b>10LZRMICROLEFTT</b>	Left LZR-MICROSCAN-T sensor
<b>10LZRMICRORIGHTT</b>	Right LZR-MICROSCAN-T sensor
<b>10LZRMICROSCANHUBT</b>	LZR-MICROSCAN-T hub
<b>10DOORSWITCH</b>	Universal Kit ON / OFF / HOLD OPEN switch
<b>20.5095</b>	Power supply harness
<b>20.5096</b>	EAGLE harness
<b>20.5222</b>	Door control harness
<b>20.5304</b>	System harness
<b>20.5310</b>	ON / OFF / HOLD OPEN switch jumper
<b>20.5320</b>	"Y" cable LZR-MICROSCAN-T hub to LZR-MICROSCAN-T harness
<b>20.5322</b>	Plug-n-play harness for Horton 4190
<b>30.5558</b>	Universal kit power supply
<b>30.5580</b>	2-wire switch
<b>35.1326</b>	Master sensor harness
<b>35.1327</b>	Slave sensor harness
<b>41.7922</b>	Left pass-through sensor end cap
<b>41.7923</b>	Right pass-through sensor end cap
<b>41.8632</b>	End cap screws
<b>50.0046</b>	Velcro tabs
<b>50.0048</b>	Spacer mount screws
<b>50.0078</b>	Jamb cap kit
<b>50.1818</b>	Spacer mount screws (metal)
<b>50.5282</b>	Spacer mount screws (wood)
<b>50.5283</b>	Home Switch (surface mount)
<b>70.0202</b>	26" standard door cord loop
<b>70.5554</b>	Sensor spacer
<b>75.5754</b>	LZR-MICROSCAN-T mounting template
<b>78.0053</b>	LZR-MICROSCAN-T wiring matrix





## LZR®-S600

LASER scanner for  
building automation and security

### FEATURES & BENEFITS

- Maximum detection range of 984 × 984 inches (82 × 82 feet)
- Degree of protection: NEMA 4 / IP65
- High immunity to environmental interferences
- Has the ability to ignore dynamic ground conditions and extreme weather

PRESENCE  
SENSORS



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Motion & Presence
<b>Max. Detection Range</b>	984 × 984" (82 × 82')
<b>Detection Plane</b>	4 curtains per sensor, curtain spread dependent on mounting height
<b>Angular Resolution</b>	0.3516°
<b>Emission Characteristics</b>	Wavelength 905 nm; maximum output pulse power 75 W (Class 1) IR LASER Red Visible LASER Wavelength 650 nm; maximum output CW power 3 mW (Class 3R)
<b>Supply Voltage</b>	10 – 35 VDC @ Sensor Terminal
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5 W
<b>Response Time</b>	Typ. 20 ms; max. 80 ms (+ output activation delay)
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free) Max. Switching Voltage 35 VDC / 24 VAC Max. Switching Current 80 mA (resistive)
<b>LED-Signal</b>	1 Blue LED: Status « Power-on » 1 Orange LED: Status « Error » 2 Bi-colored LEDs: Detection/Output Status (Green: no detection; Red: detection)
<b>Cable Length</b>	360" (30')
<b>Material</b>	PC / ASA

### TECHNICAL SPECIFICATIONS CONT'D

<b>Color</b>	Black
<b>Rotation Angle on Bracket</b>	±5° (Lockable)
<b>Tilt Angle on Bracket</b>	±3°
<b>Dimensions</b>	Housing 5.0" (W) × 2.75" (H) × 3.66" (D) 10LBA Mounting Bracket Adds 0.55"
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	-22 – 140 °F if powered 14 – 140 °F if unpowered
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Pollution on Front Screens</b>	Max. 30% ; Homogeneous
<b>Norm Conformance</b>	2006 / 95 / EC: LVD; 2002 / 95 / EC: RoHS; 2004 / 108 / EC: EMC; EN 60529:2001; IEC 60825-1:2007 Laser Class 1 & 3R; EN 60950-1:2005; EN 61000-6-2:2005 EMC - Industrial level; EN 61000-6-3:2006 EMC - Commercial level

See page 32 for Product Series



## LZR®-S600

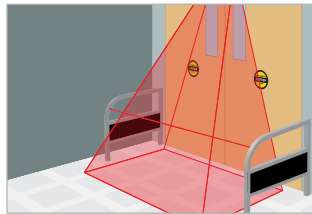
LASER scanner for  
building automation and security

### PRODUCT SERIES

P/N	Description
<b>10LZRS600</b>	Presence detection for building automation and security
<b>10LBA</b>	LZR mounting bracket accessory *SOLD SEPARATELY
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10PSMDR2024</b>	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC - 1.75 A

### PRODUCT SERIES CONT'D

P/N	Description
<b>10PSVR5T</b>	Voltage regulator, 24 VAC / 24 VDC
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>REQUIRED FOR ALL SENSOR ADJUSTMENTS</b>
<b>35.1242</b>	360" (30'), 8-conductor cable



## MICROCELL ONE

Photo beams for  
pedestrian automatic doors

### FEATURES & BENEFITS

- Easy installation on all types of automatic pedestrian doors
- LED indicators assist in setting up alignment
- Can be mounted as low as 12 inches from the floor
- Maximum range of detection of 180 inches, with an eight degree alignment tolerance
- Relay can be set as normally open or normally closed
- Capable of meeting ANSI 156.10 standard for swing door safety when paired with BEA's BODYGUARD-T

PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared
<b>Detection Mode</b>	Presence (Beam Interruption)
<b>Min. Mounting Height</b>	12" from floor
<b>Min. Distance Between Beams</b>	12" (crossed beams)
<b>Min. Range of Detection</b>	36" (3')
<b>Max. Range of Detection</b>	180" (3')
<b>Alignment Tolerance</b>	8°
<b>Response Time</b>	≤ 40 ms
<b>Hold Time</b>	300 ms
<b>Supply Voltage</b>	12 – 24 VAC; ±10% 12 – 24 VDC; -5% / 30%
<b>Current Consumption</b>	< 100 mA
<b>Output Contact Rating</b>	1 Relay (NC / NO contacts)
Max. Contact Current	1 A
Max. Contact Voltage	50 V AC / DC
Max. Switching Power	30 W (DC) / 60 VA (AC)
<b>Adjustment (via DIP Switch)</b>	Single / Double beams Standard / Inverted outputs Standard / Reduced range Test / Default
<b>Operating Temperature</b>	-30 – 131 °F

### TECHNICAL SPECIFICATIONS CONT'D

<b>Dimensions</b>	
Head Body	< 1 <sup>5</sup> / <sub>32</sub> " (L embed) × 1 <sup>5</sup> / <sub>32</sub> " (ø)
Head Harness	5 <sup>7</sup> / <sub>8</sub> " (ø)
Control Board	3.0" (W) × 1.0" (H) × 2.0" (D)
<b>Immunity</b>	
Ambient Light	75,000 lux
Incandescent Lamp	25,000 lux @ 8° angle
Electromagnetic Compatibility	According to 89 / 336 / EEC
<b>Cable Length</b>	18' (standard), 32' (optional)
<b>Material</b>	ABS
<b>Degree of Protection</b>	NEMA 4 / IP65 (beam heads)

See page [34](#) for Product Series



## MICROCELL ONE

Photo beams for  
pedestrian automatic doors

### PRODUCT SERIES

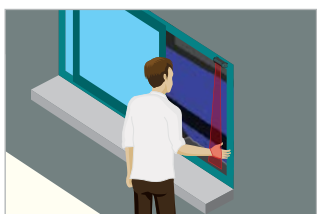
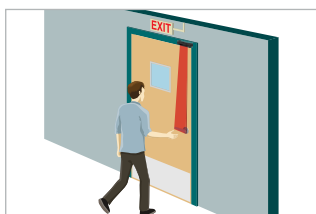
P/N	Description
<b>10MICROCELL1S</b>	Single safety beam with control box - 18' cable
<b>10MICROCELL1SL</b>	Single safety beam with control box - 32' cable
<b>10MICROCELL1D</b>	Double safety beam with control box - 18' cable
<b>10MICROCELL1DL</b>	Double safety beam with control box - 32' cable
<b>10MICROCELLADAPTER</b>	Wiring kit to retrofit BEA MICROCELL beams where Optex beams are currently installed. Must order with part number 20.0035 and the 10MICROCONTROL
<b>10MICROCONTROL</b>	MICROCELL control box

### PRODUCT SERIES CONT'D

P/N	Description
<b>10MICRO1SADAPT</b>	MICROCELL single beam adapter kit allows for MICROCELL beams to replace Optex beams without running a new cable (1) set of MICROCELL emitter / receiver heads, (1) 10MICROCELLADAPTER, (1) 10MICROCONTROL
<b>10MICRO1DADAPT</b>	MICROCELL single beam adapter kit allows for MICROCELL beams to replace Optex beams without running a new cable (2) sets of MICROCELL emitters / receiver heads, (2) 10MICROCELLADAPTER, (1) 10MICROCONTROL
<b>20.0035</b>	3" Emitter and 3" Receiver, ordered as a set
<b>20.0045</b>	Jamb cap kit with screws
<b>20.0055</b>	Emitter and Receiver 32' cable set
<b>20.0056</b>	Emitter and Receiver 18' cable set

## R2E-100

Focused active infrared  
request-to-exit sensor



### FEATURES & BENEFITS

- UL 294 / ULC S319 Listed
- Adjustable tilt angle from zero to 10 degrees
- Adjustable detection range from 20 to 48 inches\*
- Low profile sensor mounts on or above the door frame
- Multiple re-locking modes for timed or door position conditions
- Relay output consists of two Form "C" contacts for NO / NC wiring
- Three DRY auxiliary inputs: request to exit, card reader and push button

*\*The R2E-100 can accommodate swinging doors with lever handle locksets up to seven feet*

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Focused Active Infrared
<b>Supply Voltage</b>	12 – 24 VAC / VDC; $\pm 10\%$ @ 60 Hz
<b>Current</b>	
Sounder OFF	155 mA
Sounder MAX VOLUME	200 mA
<b>Temperature (UL Install)</b>	32 – 120 °F (0 – 49 °C)
<b>Temperature</b>	-20 – 120 °F (-29 – 49 °C)
<b>Humidity (ULC S319 Installation)</b>	0% – 93% non-condensing
<b>Humidity (UL 294 Installation)</b>	0% – 85% non-condensing
<b>Detection Range</b>	20 – 48", adjustable
<b>Relay</b>	2 Form "C" contact sets; 1.3 A @ 24 VAC / 30 VDC
<b>Relay Hold Time</b>	0.5 – 60 s, adjustable
<b>Sounder</b>	85 dB max, adjustable volume
<b>Indicator LEDs</b>	Green, Red, Yellow, Orange
<b>REX Input</b>	DRY contact, NO
<b>Card Reader Input</b>	DRY contact, NC
<b>Door Position Switch Input</b>	DRY contact, NO
<b>Dimensions</b>	6.875" (W) × 1.875" (H) × 2.0" (D)
<b>Material</b>	Plastic (ABS and PC)
<b>Wiring Interface</b>	JST (14-pin) with 4' cable
<b>Norm Conformance</b>	UL 294 / ULC S319; FCC Part 15 B

### PRODUCT SERIES

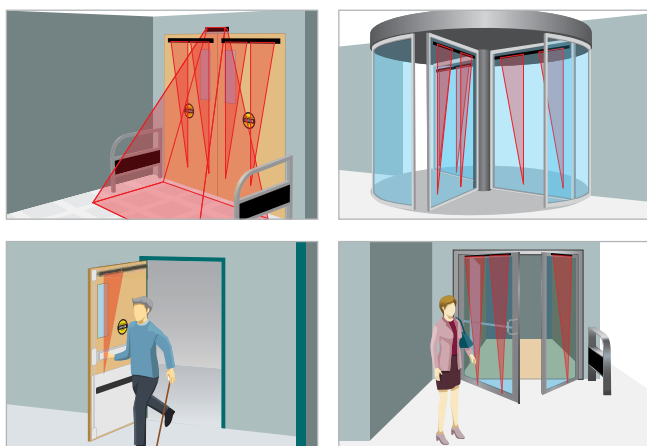
P/N	Description
<b>10R2E-100</b>	UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications





## SUPERSCAN-T

Door mounted,  
active infrared safety sensor



### FEATURES & BENEFITS

- Housing available up to 102 inches in length; can be field cut to desired door width
- Capable of meeting ANSI 156.10 standard for swing door safety when coupled with BEA's BODYGUARD-T
- Designed to mount at the top of the door to reduce accidental damage
- Can be set to background analysis mode to reduce the chance of false detection from faulty environmental situations
- Capable of external monitoring
- Fire rated for up to 90 minutes

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared with background suppression
<b>Detection Mode</b>	Presence
<b>Measurement of Distance</b>	Triangulation
<b>Power Supply</b>	12 – 24 VAC $\pm 10\%$ / 12 – 24 VDC $\pm 10\%$
<b>Detection Range</b>	96" (8')
<b>Max Mounting Height</b>	0 – 96" (0 – 8')
<b>Detection Signal Duration</b>	Infinite presence detection
<b>Detection Time</b>	< 50 ms
<b>Input Inhibit</b>	12 – 24 VAC $\pm 10\%$ / 12 – 24 VDC $\pm 10\%$ / Inhibited when voltage is applied
<b>SMR Input Data</b>	12 – 18 VDC, Inhibited when voltage is applied
<b>Output Interface / Relay</b>	
Max. Contact Rating	1 A @ 30 V (resistive)
Hold Time	0.1 – 4.5 s

### TECHNICAL SPECIFICATIONS CONT'D

<b>LED Indications</b>	
Master	Red LED = Detection Green LED = Active Output
Slave	Red LED = Detection
<b>Operating Temperature Range</b>	-30 – 140 °F
<b>PCB Dimensions</b>	
Master	10.91" (W) $\times$ 1.5" (H)
Slave	8.75" (W) $\times$ 1.5" (H)
<b>Connection (Door Controller)</b>	8-position screw terminal on master PCB
<b>Connection (Master to Slave)</b>	Flat ribbon cable with connectors and key lock
<b>Max. Number of Slaves</b>	Standard = 9 With monitoring = 8
<b>Functions Selection</b>	Detection mode - NO or NC Normal mode or background analysis mode
<b>Norm Conformance</b>	UL 10B/C (90 minutes) <sup>1</sup> UL 10B file number: GVUX.R39071; UL10C file number: GVUX7.R9071

#### NOTES:

1. UL10 fire rating applies only to SUPERSCAN-T sensors with housings less than or equal to 46 1/2". Housing greater than 46 1/2" are not UL10 fire-rated.

See page [38](#) for Related Products



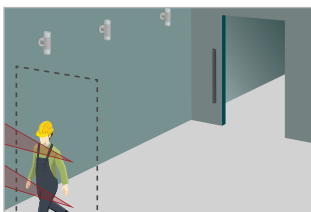
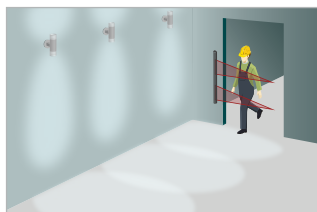
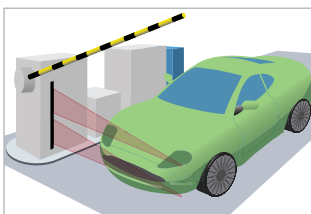
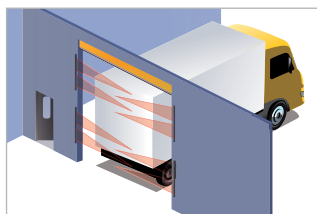
## SUPERSCAN-T INDUSTRIAL

Active infrared  
presence sensor

### FEATURES & BENEFITS

- Detection range of zero to 96 inches
- Master with up to eight slaves monitored
- Housing available up to 102 inches; can be field-cut to desired door width
- Can be mounted vertically or horizontally based on application
- Relay hold time can be adjusted from 0.1 to 4.5 seconds
- Can be set to background analysis mode to reduce the chance of false detection from faulty environmental situations
- Capable of external monitoring
- Fire rated for up to 90 minutes

PRESENCE  
SENSORS



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active Infrared with background suppression
<b>Detection Mode</b>	Presence
<b>Measurement of Distance</b>	Triangulation
<b>Power Supply</b>	12 – 24 VAC $\pm 10\%$ / 12 – 24 VDC $\pm 10\%$
<b>Detection Range</b>	24 – 96" (2 – 8')
<b>Detection Signal Duration</b>	Infinite presence detection
<b>Detection Time</b>	< 50 ms
<b>Input Inhibit</b>	12 – 24 VAC $\pm 10\%$ / 12 – 24 VDC $\pm 10\%$ / Inhibited when voltage is applied
<b>SMR Input Data</b>	12 – 18 VDC, Inhibited when voltage is applied
<b>Output Interface / Relay</b>	
Max. Contact Rating	1 A @ 30 V (resistive)
Hold Time	0.1 – 4.5 s

### TECHNICAL SPECIFICATIONS CONT'D

<b>LED Indications</b>	
Master	Red LED = Detection Green LED = Active Output
Slave	Red LED = Detection
<b>Operating Temperature Range</b>	-30 – 140 °F
<b>PCB Dimensions</b>	
Master	10.91" (W) $\times$ 1.5" (H)
Slave	8.75" (W) $\times$ 1.5" (H)
<b>Connection (Door Controller)</b>	8-position screw terminal on master PCB
<b>Connection (Master to Slave)</b>	Flat ribbon cable with connectors and key lock
<b>Max. Number of Slaves</b>	Standard = 9 With monitoring = 8
<b>Functions Selection</b>	Detection mode - NO or NC Normal mode or background analysis mode
<b>Norm Conformance</b>	UL 10B/C (90 minutes) <sup>1</sup> UL 10B file number: GVUX.R39071; UL10C file number: GVUX7.R9071

#### NOTES:

1. UL10 fire rating applies only to SUPERSCAN-T sensors with housings less than or equal to 46 1/2". Housing greater than 46 1/2" are not UL10 fire-rated.

See page 38 for Related Products



## SUPERSCAN-T / SUPERSCAN-T INDUSTRIAL

Product series and  
accessories

### PRODUCT SERIES

P/N	Description
<b>10SSTI</b>	1 Master 34.5" end cap to end cap (for 36" doors)
<b>10SSTICUSTOM</b>	1 Master Custom Length (13" min.)
<b>10SSTI40</b>	1 Master 40" end cap to end cap (for 42" doors)
<b>10SSTI42</b>	1 Master 42" end cap to end cap (for 44" doors)
<b>10SSTI48</b>	1 Master 48" end cap to end cap (for 50" plus doors)
<b>10SSTII</b>	1 Master 1 Slave 34.5" end cap to end cap (for 36" doors)
<b>10SSTIICUSTOM</b>	1 Master 1 Slave Custom Length, (24.5" min.)
<b>10SSTII40</b>	1 Master 1 Slave 40" end cap to end cap (for 42" doors)
<b>10SSTII42</b>	1 Master 1 Slave 42" end cap to end cap (for 44" doors)
<b>10SSTII44</b>	1 Master 1 Slave 44" end cap to end cap (for 46" doors)
<b>10SSTII48</b>	1 Master 1 Slave 48" end cap to end cap (for 50" plus doors)
<b>10SSTIII</b>	1 Master 2 Slaves 34.5" end cap to end cap (for 36" doors)
<b>10SSTIIICUSTOM</b>	1 Master 2 Slaves Custom Length (34.5" min.)
<b>10SSTIVCUSTOM</b>	1 Master 3 Slaves Custom Length (46.5" min.)
<b>10SSTSLAVE</b>	SUPERSCAN-T slave unit includes ribbon connector (no housing)
<b>10SSTMASTER</b>	SUPERSCAN-T master unit (no housing)
<b>10SSQD</b>	Quick disconnect for SUPERSCAN-T - one needed per door
<b>10GTSSHARN</b>	SUPERSCAN-T / BODYGUARD-T Gyrotech relay harness
<b>10SSHARDWARE</b>	SUPERSCAN-T hardware kit Includes cord sheath, jamb caps with screws and end caps with screws

### PRODUCT SERIES CONT'D

P/N	Description
<b>10CAPKIT</b>	(1) Left / (1) right end cap and mounting screws
<b>10HORTONSSHARN</b>	SUPERSCAN-T / BODYGUARD-T relay harness for use with Horton Control
<b>10LE21</b>	Lock out relay for low energy doors that inhibits approach-side SUPERSCAN-T sensors on automatic doors when used manually
<b>20.0111</b>	6-conductor cable, cut to 108" (9')
<b>30.0015</b>	Ribbon connector cable connects masters and slaves
<b>41.3879</b>	Adjustable mounting clips for master and slave
<b>55.0001</b>	Door cord jamb cap and screw
<b>70.0025</b>	Aluminum housing- ordered per inch - stocked in 102" lengths
<b>70.0046</b>	Aluminum housing cut to 33" (for a 34.5" SUPERSCAN-T)
<b>70.0048</b>	Aluminum housing cut to 38.5" (for a 40" SUPERSCAN-T)
<b>70.0049</b>	Aluminum housing cut to 40.5" (for a 42" SUPERSCAN-T)
<b>70.0050</b>	Aluminum housing cut to 46.5" (for a 48" SUPERSCAN-T)
<b>70.0138</b>	Lens piece, ordered per inch - stocked in 102" lengths
<b>70.0202</b>	Standard 26" SUPERSCAN-T door cord sheath, ordered per piece
<b>70.0203</b>	Lens piece cut to standard 33" lens (for a 34.5" SUPERSCAN-T)
<b>70.0304</b>	SUPERSCAN-T hardware kit Includes cord sheath and jamb caps with screws
<b>70.0319</b>	Lens piece cut to 38.5" (for a 40" SUPERSCAN-T)
<b>70.0320</b>	Lens piece cut to 40.5" (for a 42" SUPERSCAN-T)
<b>70.0321</b>	Lens piece cut to 46.5" (for a 48" SUPERSCAN-T)

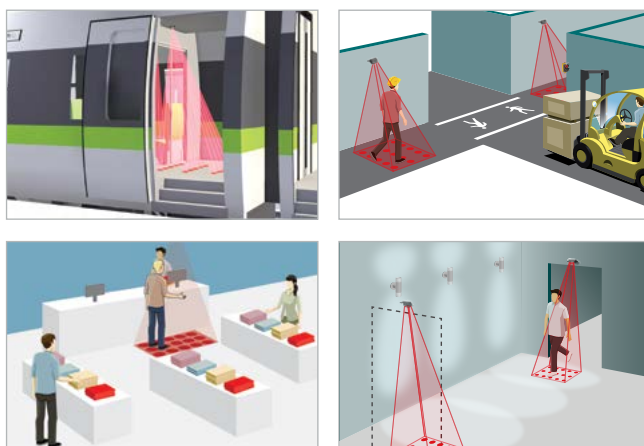


## BEAMBOX

Active infrared motion  
and presence sensor

### FEATURES & BENEFITS

- Three rows of five infrared spots ideal for unique off door applications
- Four infrared immunity modes
- Typical detection area of 39 × 39 inches when mounted at a height of 84 inches
- Nine unique preset patterns are available
- Capable of detecting motion and / or presence
- NO / NC output relay
- Recessed mounting for low profile applications
- Adjustable tilt angle from zero to 20 degrees



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Active infrared with background analysis
<b>Detection Mode</b>	Motion & Presence
<b>Optical Features</b>	15 independent IR spots with a diameter of typ. 0.43"
<b>Maximum Mounting Height</b>	98.4" (8.2') (flush mounting)
<b>Tilt Angles</b>	0 – 20° vertical in steps of 5°
<b>Detection Zone (W × D)</b>	39.6" (3.3') × 46.8" (3.9'); @ mounting height 6.5'; tilt angle 20°
<b>Reaction Time</b>	< 100 ms
<b>Supply Voltage</b>	12 – 30 VAC ±10%; 12 – 45 VDC ±10%
<b>Power Consumption</b>	< 3 W (VA)
<b>Output</b>	Relay (free of potential change-over contact)
Max. Contact Current	1 A (resistive)
Max. Contact Voltage	42 VAC – 60 VDC
Max. Switching Power	30 W (DC) / 60 VA (AC)
<b>Monitoring Input</b>	Optocoupled (free of potential)
Input Voltage	10 – 24 VDC
Input Current	< 10 mA (@ 24 V)
<b>Connection (sensor side)</b>	Unpluggable integrated 7-pin connector
<b>Hold Time</b>	0.5 – 9 s (adjustable)
<b>LED Signal</b>	Red and Green
<b>Mains Frequency</b>	50 – 60 Hz

### TECHNICAL SPECIFICATIONS CONT'D

<b>Temperature Range</b>	-13 – 136 °F (operating); -22 – 140 °F (storage)
<b>Degree of Protection</b>	IP41
<b>Dimensions</b>	5.5" (W) × 1.5" (H) × 2.2" (D)
<b>Weight</b>	3.5 oz
<b>Enclosure Material / Color</b>	Polycarbonate / Black
<b>Cable Length</b>	96" (8')

### PRODUCT SERIES

P/N	Description
<b>10BEAMBOX</b>	Uses a 3 × 5 matrix of infrared spots, 15 total, where each can be individually activated <i>Monitoring capable</i>
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>REQUIRED FOR ALL SENSOR ADJUSTMENTS</b>
<b>10SPOTFINDER</b>	Active infrared spotfinder

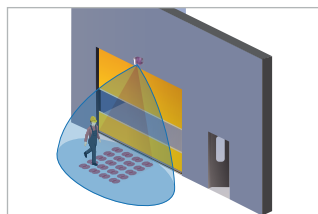
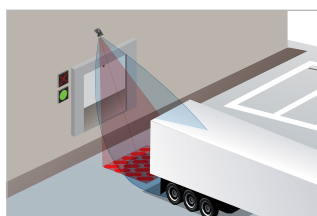
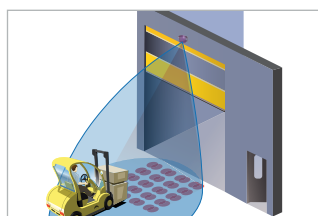


## IS40 / XL

Motion and presence sensor series  
for industrial doors

### FEATURES & BENEFITS

- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Six modes of detection filtering are available for microwave immunity, as well as pedestrian and parallel traffic rejection
- Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment
- Up to seven minimum object targets
- Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light and sun



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar	Active Infrared
<b>Detection Mode</b>	Motion	Presence
<b>LED Signal</b>	Green (Activation Relay)	Red (Presence Relay)
<b>Transmitter Frequency / Wavelength</b>	24.150 GHz	875 nm
<b>Transmitter Power Density</b>	< 5 mW / cm <sup>2</sup>	< 250 mW / m <sup>2</sup>
<b>Max. Detection Field</b>		
IS40	156" × 198"	120" × 120"
IS40XL	156" × 78"	90" × 90"
<b>Output Hold Time</b>	0.5 – 9 s	0.5 s
<b>Min. Detection Speed</b>	2 in / s in sensor axis	0 in / s
<b>Tilt Angle</b>	-8 – 22° (Relative to sensor face)	15 – 45°
<b>Mains Frequency</b>	50 – 60 Hz	
<b>Power Consumption</b>	< 3.5 W	
<b>Relay Output</b>	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)	
<b>Installation Height</b>		
IS40	96 – 192" (8 – 16')	
IS40XL	78 – 138" (6.5 – 11.5')	
<b>Temperature Range</b>	-22 – 140 °F	

### TECHNICAL SPECIFICATIONS CONT'D

<b>Dimensions</b>	3.75" (W) × 4.0" (H) × 5.0" (D)
<b>Materials</b>	ABS & Polycarbonate
<b>Cable Length</b>	360" (30')
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Norm Conformance</b>	R&TTE: 1999 / 5 / EC; EMC 2004 / 108 / EEC

### PRODUCT SERIES

P/N	Description
<b>10IS40</b>	Dual technology industrial sensor utilizing microwave motion and active infrared presence detection
<b>10IS40XL</b>	Dual technology industrial sensor utilizing microwave motion and active infrared presence detection for low mounting heights
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10SPOTFINDER</b>	Active infrared spotfinder
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL <b>RECOMMENDED FOR ALL SENSOR ADJUSTMENTS</b>
<b>35.1195</b>	8-pin conductor cable (30')

## IXIO-DT1

Motion and presence sensor for  
automatic sliding doors



### FEATURES & BENEFITS

- Ten microwave activation sensitivity settings and three infrared safety immunity settings
- Ability to distinguish between approaching and departing traffic
- Two 24-spot, high-density, infrared safety curtains providing precise presence detection
- Four visible red alignment spots are projected on the ground to assist in precise IR curtain adjustment
- Intelligent programming and troubleshooting via a menu-driven LCD
- Fully monitored internally, capable of external monitoring

MOTION + PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar	Active Infrared
<b>Detection Mode</b>	Motion	Presence
<b>Transmitter Frequency</b>	24.150 GHz	N/A
<b>Transmitter Radiated Power</b>	< 20 dBm EIRP	N/A
<b>Transmitter Power Density</b>	< 5 mW / cm <sup>2</sup>	N/A
<b>Spot Size</b>	N/A	2" x 2"
<b>Max. Number of Spots</b>	N/A	24 per curtain
<b>Max. Number of Curtains</b>	N/A	2
<b>Output</b>	Electro-mechanical-relay (potential and polarity free)	Solid-state-relay (potential and polarity free)
Max. Contact Voltage	30 VDC	42 VDC
Max. Contact Current	1 A	400 mA
Hold Time	Microwave: 0.5 – 9 s (user adjustable)	Infrared: 0.3 – 1 s
<b>Test Input</b>	N/A	Sensitivity: Low: < 1 V; High: > 10 V (max.30 V) Response time on test request: typical: < 5 ms
<b>Supply Voltage</b>	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)	

### TECHNICAL SPECIFICATIONS CONT'D

<b>Power Consumption</b>	< 2.5 W
<b>Temperature Range</b>	-13 – 131 °F 0 – 95% relative humidity, non condensing
<b>Mounting Height</b>	78 – 138" (6.5 – 11.5')
<b>Degree of Protection</b>	IP54
<b>Applicable Directives</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; MD 2006 / 42 / EC; RoHS 2002 / 95 / EC
<b>Dimensions</b>	10.6" (W) x 2.27" (H) x 2.25" (D)
<b>Cable Length</b>	120" (10')

See page [42](#) for Product Series





AAADM



AAADM Certified Technicians.  
Please contact BEA or consult  
price book for availability.

## IXIO-DT1

Motion and presence sensor for  
automatic sliding doors



### PRODUCT SERIES

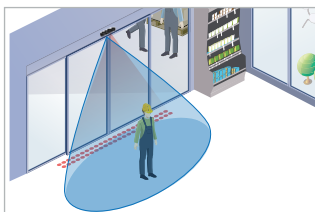
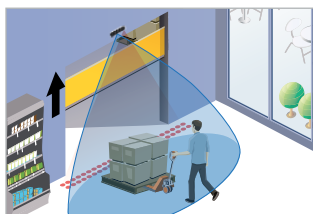
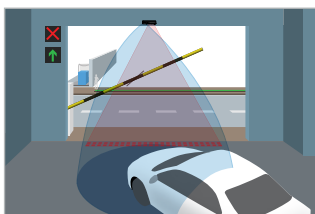
P/N	Description
10IXIODT1	Dual technology sensor for sliding doors
10CDA	IXIO curved door accessory
10ICA	IXIO ceiling accessory
10IMB	IXIO bracket accessory
10IRA	IXIO rain accessory
10IXIOSPACER	Black, plastic spacer
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL

### PRODUCT SERIES CONT'D

P/N	Description
20.5349	120" (10') wire harness
20.5359	360" (30') wire harness
20.5302	Harness for Optex - IXIO conversion
35.1286	Black replacement cover
35.1302	White replacement cover
35.1303	Silver replacement cover
70.0173	Wide microwave antenna for IXIO and EAGLE
70.0182	Narrow microwave antenna for IXIO and EAGLE

## IXIO-DT1 INDUSTRIAL

Motion and presence sensor for  
interior industrial doors



### FEATURES & BENEFITS

- Ten microwave activation sensitivity settings and three infrared safety immunity settings
- Ability to distinguish between approaching and departing traffic
- Two 24-spot, high-density, infrared safety curtains providing precise presence detection
- Four visible red alignment spots are projected on the ground to assist in precise IR curtain adjustment
- Intelligent programming and troubleshooting via a menu-driven LCD
- Fully monitored internally, capable of external monitoring

MOTION + PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar	Active Infrared
<b>Detection Mode</b>	Motion	Presence
<b>Transmitter Frequency</b>	24.150 GHz	N/A
<b>Transmitter Radiated Power</b>	< 20 dBm EIRP	N/A
<b>Transmitter Power Density</b>	< 5 mW / cm <sup>2</sup>	N/A
<b>Spot Size</b>	N/A	2" x 2"
<b>Max. Number of Spots</b>	N/A	24 per curtain
<b>Max. Number of Curtains</b>	N/A	2
<b>Output</b>	Electro-mechanical-relay (potential and polarity free)	Solid-state-relay (potential and polarity free)
Max. Contact Voltage	30 VDC	42 VDC
Max. Contact Current	1 A	400 mA
Hold Time	Microwave: 0.5 – 9 s (user adjustable)	Infrared: 0.3 – 1 s
<b>Test Input</b>	N/A	Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Response time on test request: typical: < 5 ms
<b>Supply Voltage</b>	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)	

### TECHNICAL SPECIFICATIONS CONT'D

<b>Power Consumption</b>	< 2.5 W
<b>Temperature Range</b>	-13 – 131 °F, 0 – 95% relative humidity, non condensing
<b>Mounting Height</b>	78 – 138" (6.5 – 11.5')
<b>Degree of Protection</b>	IP54
<b>Applicable Directives</b>	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; MD 2006 / 42 / EC; RoHS 2002 / 95 / EC
<b>Dimensions</b>	10.6" (W) x 2.27" (H) x 2.25" (D)
<b>Cable Length</b>	360" (30')

See page 44 for Product Series



## IXIO-DT1 INDUSTRIAL

Motion and presence sensor for interior industrial doors



### PRODUCT SERIES

P/N	Description
<b>10IXIODT1INDUS</b>	Dual technology industrial sensor utilizing microwave motion and active infrared presence sensor. <i>Includes 30' cable</i>
<b>10CDA</b>	IXIO curved door accessory
<b>10ICA</b>	IXIO ceiling accessory
<b>10IMB</b>	IXIO bracket accessory
<b>10IRA</b>	IXIO rain accessory
<b>10IXIOSPACER</b>	Black, plastic spacer
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL

### PRODUCT SERIES CONT'D

P/N	Description
<b>20.5349</b>	120" (10') wire harness
<b>20.5359</b>	360" (30') wire harness
<b>20.5302</b>	Harness for Optex - IXIO conversion
<b>35.1286</b>	Black replacement cover
<b>35.1302</b>	White replacement cover
<b>35.1303</b>	Silver replacement cover
<b>70.0173</b>	Wide microwave antenna for IXIO and EAGLE
<b>70.0182</b>	Narrow microwave antenna for IXIO and EAGLE



## IXIO-DT1V

Motion and presence sensor  
with camera for automatic sliding doors



### FEATURES & BENEFITS

- Provides an SDTV camera that shoots 30 frames of footage per second
- Integrates with building surveillance systems
- Video replacement kit available to upgrade any IXIO in the field
- Ten microwave activation sensitivity settings and three infrared safety immunity settings
- Ability to distinguish between approaching and departing traffic
- Two 24-spot, high-density, infrared safety curtains providing precise presence detection
- Fully monitored internally, capable of external monitoring

MOTION + PRESENCE  
SENSORS

### TECHNICAL SPECIFICATIONS

**SENSOR SPECS** See IXIO-DT1 (page 40)

#### CAMERA

Supply Voltage	6.6 – 36 VDC; $\pm 10\%$ 6.0 – 28 VAC; $\pm 10\%$
Operating Temperature	-22 – 140 °F (RH 95% max)
Video Output	1.0 (Vp-p) / 75 $\Omega$
Image Sensor	CMOS
Horizontal Resolution	480 TVL
NTSC Output	720 (H) x 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

P/N	Description
10IXIODT1V	IXIO-DT1 with integrated video
10IXIOSPACER	Black, plastic spacer
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL
10.1279	10IXIODT1V cover only and power supply harness
20.5308C	Camera harness and power supply <b>CAN ONLY BE USED WITH THE 10IXIODT1V</b>
20.5349	120" (10') wire harness
20.5359	360" (30') wire harness
70.0173	Wide microwave antenna for IXIO and EAGLE
70.0182	Narrow microwave antenna for IXIO and EAGLE

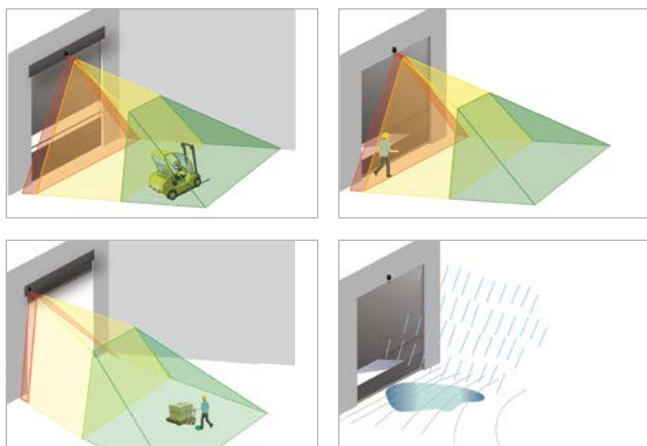


## LZR®-WIDESCAN

Motion, presence & safety sensor  
for industrial doors

### FEATURES & BENEFITS

- Promotes energy savings by reducing false detections / unnecessary door cycling, helping to regulate HVAC
- Virtual pull-cord function can differentiate between pedestrian and vehicle traffic and can provide pulse-on-stop activation
- Ideal for replacing costly / labor-intensive induction loop and pull-cord solutions
- Two visible alignment spots indicating safety field location ensuring setup



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
<b>Detection Mode</b>	Motion & Presence
<b>Max. Detection Field</b>	Width: 1.2 x mounting height Depth: 1.2 x mounting height (adjustable depending on user settings)
<b>Thickness of First Curtain</b>	¾" per 3' of mounting height
<b>Typ. Mounting Height</b>	6.5 – 19.5'
<b>Typ. Min. Object Size</b>	6" @ 19.5' (in proportion to object distance)
<b>Test Body Dimensions</b>	27.5" (W) x 11.75" (H) x 7.75" (D)
<b>Min. Reflectivity Factor</b>	> 2 % (of floor and object) (measured at max. 19.5' in safety field)
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; maximum output pulse power 75 W, Class 1
Visible LASER	Wavelength 650 nm; maximum output CW power 3 mW, Class 3R
<b>Supply Voltage</b>	12 – 24 VAC ±10% 12 – 30 VDC ±10% @ sensor terminal
<b>Power Consumption</b>	< 2.5 W (heating: off) < 15 W (heating: eco or auto)
<b>Response Time</b>	Typ. 100 ms (max. 500 ms)
<b>Input</b>	30 VDC (max. switching voltage) low < 1 V      high > 10 V (voltage threshold)
<b>LED-Signal</b>	2 tri-colored LEDs: Output status / Remote Control Response / Error Signals

### TECHNICAL SPECIFICATIONS CONT'D

<b>Output</b>	2 solid-state relays (galvanic isolation, polarity free) 30 VDC (max. switching voltage) – 100 mA (max. switching current) - in switching mode: NO / NC - in frequency mode: pulsed signal (f= 100 Hz ±10%) 1 electro-mechanic relay (galvanic isolation, polarity free) 42 VAC (max. switching voltage) – 500 mA (max. switching current)
<b>Dimensions</b>	5.91" (W) x 7.87" (H) x 3.94" (D)
<b>Material / Color</b>	PC/ASA / Black
<b>Rotation Angles on Bracket</b>	45° to the right, 15° to the left (lockable)
<b>Tilt Angles on Bracket</b>	-10 – 5°
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	-22 – 140 °F (-30 – 60 °C)
<b>Vibrations</b>	< 2 G
<b>Cable Length</b>	360" (30')
<b>Norm Conformance</b>	EN 61000-6-2, EN 61000-6-3, EN 60950-1, EN 60825-1, EN ISO 13849-1 PL "d"/ CAT2, EN 62061 SIL 2, EN 61496-1 ESPE Type 2, EN 12978, EN 50581

See next page for Product Series



## LZR®-WIDESCAN

Motion, presence & safety sensor  
for industrial doors

### PRODUCT SERIES

P/N	Description
<b>10LZRWIDESCAN</b>	Motion, presence & safety sensor
<b>10INDBRACKET</b>	Heavy duty extension bracket - adjustable from 20 – 36"
	<b>ADAPTER PLATE KIT (10.1311) IS REQUIRED</b>
<b>10MINIBRACKET</b>	Short heavy duty extension bracket - adjustable from 6 – 12"

### PRODUCT SERIES CONT'D

P/N	Description
<b>10PSMDR2024</b>	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL
<b>10.1311</b>	Adapter plate kit
<b>20.5402</b>	50' cable





**NEMA 4**  
RATED ENCLOSURE

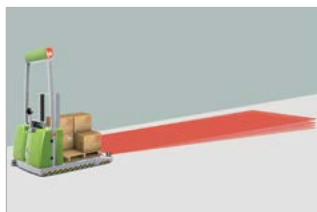


## LZR®-U920 / U921

Compact raw data  
LASER scanner

### FEATURES & BENEFITS

- Non-contact optical measurement
- Background or substrate has almost no effect on measurements
- Measurement range: up to 65 meters (213 feet)
- Field of view: up to 96 degrees
- Standard RS485 bus communication (bidirectional)
- Low power consumption (< 5 W), adaptable to autonomous systems
- No external illumination of target object necessary as compared to camera systems



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Measurement Range</b>	Max. 65 m (213') / 10 m (30') @ 2% remission factor / 30 m (98') @ 10% remission factor
<b>Number of Points / Plane</b>	Max. 274
<b>Number of Planes</b>	
LZR-U920	4
LZR-U921	1
<b>Angular Resolution</b>	Max. 0.3516°
<b>Angular Coverage</b>	Max. 96°
<b>RPM</b>	900 turns / min
<b>Scanning Frequency</b>	
LZR-U920	15 Hz
LZR-U921	60 Hz
<b>Serial Communication</b>	
Type	Asynchronous
Interface	RS 485
Communication mode	Half-duplex (U920,U921)
Data transmission speed	921600 max.
Topology	Point-to-point
Symbol coding	1 start bit, 1 stop bit, no parity bit
File type	8 bits
<b>Remission Factor</b>	> 2%
<b>Emission Characteristics IR LASER</b>	Wavelength 905 nm; maximum output pulse power 75 W (CLASS 1)
<b>Power Supply</b>	Peak current at power-on: 1.8 A (max. 80 ms @ 35 VDC @ sensor side)

### TECHNICAL SPECIFICATIONS CONT'D

<b>LED-Signal</b>	1 Blue LED: Power-on Status 1 Orange LED: Error Status 2 Bi-colored LEDs: Function Status
<b>Dimensions</b>	5.0" (W) x 2.75" (H) x 3.66" (D)
<b>Material</b>	PC / ASA
<b>Color</b>	Black
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	-22 – 40 °F (-30 – 60 °C) if powered; 14 – 140 °F (-10 – 60 °C) if unpowered
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Expected Lifetime</b>	Designed for a lifetime of min. 20 years
<b>Norm Conformance</b>	2006 / 95 / EC: LVD; 2011 / 65 / EU: RoHS 2; 2004 / 108 / EC: EMC; EN 60529:2001; IEC 60825-1:2007 Laser Class 1&3R; EN 60950-1:2005; EN 61000-6-2:2005 EMC - Industrial level; EN 61000-6-3:2006 EMC - Commercial Level

### PRODUCT SERIES

P/N	Description
<b>10LZR0920</b>	Bidirectional four curtain sensor
<b>10LZR0921</b>	Bidirectional one curtain sensor
<b>10PSMDR2024</b>	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply
<b>10PSVR5T</b>	24 VAC or 24 VDC



## LZR®-SIGMA

LASER-based  
people counting sensor

### FEATURES & BENEFITS

- Independent of light conditions and weather
- Two high resolution detection fields, with 250 spots per curtain, provide directionality
- Cloud-based connectivity enables independence from local networks and cabling system constraints
- Wall, ceiling recessed and ceiling surface mounting options
- Mobile setup app for simple, intuitive programming
- Web-based device / user management tool (sensorio.com)

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Emission Characteristics IR LASER</b>	Wavelength 905 nm; max. output pulse power 25 W; Class 1
<b>Dimensions</b>	
Standalone	8.0" (W) × 2 ½" (H) × 5 ½" (D) (elliptical)
With Ceiling Accessory	Visible height 1 ½", invisible height 2 ½"
<b>Max. Mounting Height</b>	216"
<b>Temperature Range</b>	-13 – 131 °F if powered (storage temperature -31 – 158 °F)
<b>Humidity</b>	0 – 95% non-condensing
<b>Power</b>	External DC power or PoE (IEEE802.3af): power consumption <12 W
<b>Data Transfer</b>	Ethernet / 3G
<b>Installation Height</b>	79 – 216"
<b>Counting Width Coverage</b>	Equivalent to mounting height
<b>Camera</b>	
Resolution	160 × 120 pixels
Frame Rate	15 fps (for counting proof purpose only – optional feature)
<b>Protocols</b>	(S)FTP, SFTP, HTTP(S)

### PRODUCT SERIES

P/N	Description
<b>10LZRSIGMA-B</b>	People counting sensor, black
<b>10LZRSIGMA-W</b>	People counting sensor, white
<b>10LZRSIGMA-WAB</b>	Wall-mount accessory, black
<b>10LZRSIGMA-WAW</b>	Wall-mount accessory, white
<b>10LZRSIGMA-CA</b>	Ceiling recessed accessory
<b>10LZRSIGMA-HB</b>	LZR®-SIGMA housing, black
<b>10LZRSIGMA-HW</b>	LZR®-SIGMA housing, white

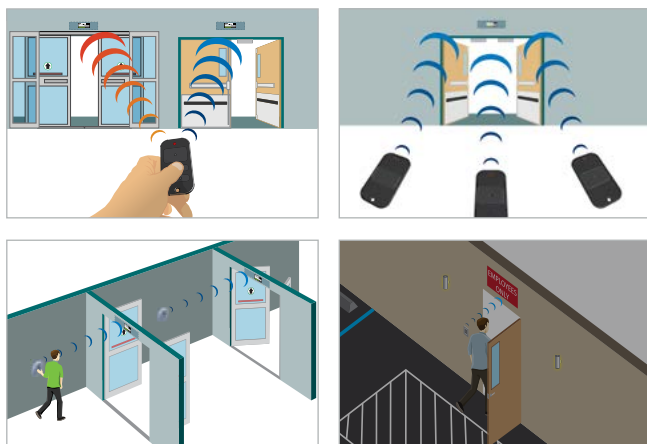


## BR2-900

2-relay logic module +  
900 MHz wireless technology

### FEATURES & BENEFITS

- Logic module with integrated 900 MHz wireless technology eliminates the need for separate logic module and wireless receiver
- Sequenced or simultaneous relay activation for application flexibility
- Two-AMP relays allow the direct release of an electric locking device wirelessly, eliminating the need for a separate logic module or isolation relay
- Extended Hold Mode allows wireless push plates to function like hardwired push plates (if push plate is held, relay does not time out)
- Wireless functionality eliminate the need to run input wires directly to the logic module, saving both time and money



### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	12 – 24 VAC / VDC $\pm 10\%$
<b>Current Consumption</b>	45 mA DC 75 mA AC
<b>Frequency</b>	908 – 918 MHz (frequency hopping)
<b>Emitted Radio Power</b>	-25 dBm (TX)
<b>Power Consumption</b>	0.5 – 1.5 W
<b>Programmable Transmitters Per Receiver</b>	75 (unlimited for Universal Transmitter)
<b>Temperature Rating</b>	-22 – 158 °F (-30 – 70 °C)

#### Input

Day / Night (24hr)	DRY contact
AUX	DRY contact

#### Contact Rating

Relay 1 DPDT / Relay 2 DPDT	2 A @ 30 VDC or 2 A @ 24 VAC
-----------------------------	------------------------------

#### LEDs

BLUE	Relay 1 Activation
WHITE	Relay 2 Activation
RED	Radio Frequency / Learn
TRI-COLOR	Signal Strength

#### Certification

FCC, IC

#### Dimensions

5.2" (W)  $\times$  1.0" (H)  $\times$  2.2" (D)

#### Housing

ABS (white translucent)

### PRODUCT SERIES

P/N	Description
<b>10BR2-900</b>	2-relay logic module
<b>10TD900HH1U</b>	Universal transmitter
<b>10TD900PB</b>	Hardwired transmitter
<b>10TD900TR</b>	Retrofit transmitter
<b>10TD900HH1</b>	1-button handheld transmitter
<b>10TD900HH2</b>	2-button handheld transmitter
<b>10TD900HH3</b>	3-button handheld transmitter
<b>10TD900HH4</b>	4-button handheld transmitter

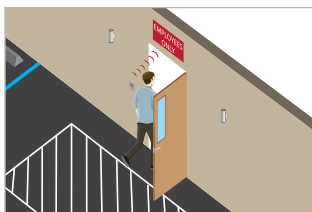
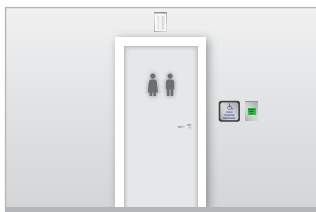
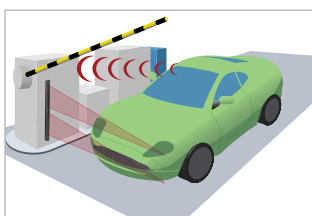
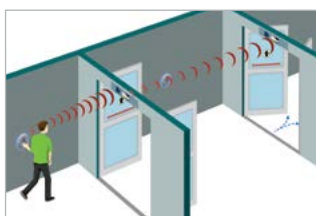


## BR3-X

Programmable 3-relay  
logic module

### FEATURES & BENEFITS

- Versatility with 13 programmable logic functions
- Two-button programming combined with dual seven-segment display provides simple setup
- Two 3-AMP relays and one 1-AMP relay, all with built-in surge suppression, eliminates the need for external components when installing some electric locking devices
- WET output with AC / DC voltage for powering an electric locking device directly from the module

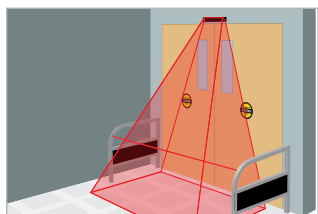


### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	12 – 24 VAC / VDC $\pm 10\%$
<b>Power Consumption</b>	30 – 130 mA; DRY Output
<b>Temperature Range</b>	
BR3-X	-15 – 150 °F*
	*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
<b>Dimensions</b>	5.2" (W) $\times$ 1.0" (H) $\times$ 2.2" (D)
<b>Relay Hold Time</b>	Up to 60 seconds per relay
<b>Delay Between Relays</b>	Up to 60 seconds per relay with ¼, ½ and ¾ second options
<b>Housing Material</b>	ABS Plastic
<b>Input Specification</b>	
Inputs 1, 2, 3, 4	DRY contact
WET Input	5 – 24 VAC / VDC $\pm 10\%$
<b>Contact Rating</b>	
Relay 1 (DRY)	3 A @ 24 VAC / 30 VDC
Relay 1 (WET)	1 A
Relay 2	3 A @ 24 VAC / 30 VDC
Relay 3	1 A @ 24 VAC / 30 VDC

### PRODUCT SERIES

P/N	Description
<b>10BR3X</b>	Programmable 3-relay logic module offering 13 functions, including day / night mode, normally locked and normally unlocked restroom modes <b>See page 93-94 for RESTROOM KIT and page 92 for EMERGENCY ADD-ON KIT</b>
<b>10LE21</b>	Lock out module for low energy doors that inhibits approach-side SUPERSCAN-T sensors on automatic doors when used manually
<b>10MC25</b>	Delay on make / delay on break time delay module ideal for use when either a magnetic lock or electric strike is installed on an automatic door
<b>15.0096</b>	Harness for 10MC25



## LOCK-OUT MODULES

Swing door logic used with overhead presence sensors

### FEATURES & BENEFITS

- Used to inhibit header-mounted safety sensors (BODYGUARD-T) while door is in closing cycle
- Recognizes position of door by analyzing motor voltage
- Optional safety beam input to override inhibit signal during closing

### TECHNICAL SPECIFICATIONS

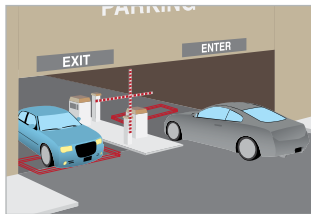
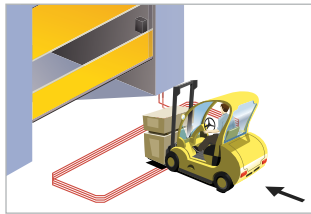
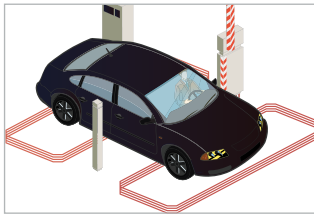
<b>Power Supply</b>	12 – 24 VAC / 15 – 24 VDC 4 MHz (Microprocessor)
<b>Operating Frequency</b>	4 MHz (Microprocessor)
<b>Power Consumption</b>	10 mA at rest, 50 mA max.
<b>Output</b>	2x SPST Relays
<b>Max. Voltage - Relay Contact</b>	60 VDC, 120 VAC
<b>Max. Current - Relay Contacts (both)</b>	2 ADC,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

### PRODUCT SERIES

P/N	Description
<b>10LO21</b>	Lock-out relay
<b>10LO21B</b>	Lock-out relay for BESAM CUP MP
<b>10LO21K</b>	Lock-out relay for KM 3800 controls
<b>10LO21P</b>	Universal lock-out relay for PARALLAX
<b>10LO21U</b>	Universal lock-out relay
<b>10LO21S</b>	Universal lock-out relay for record
<b>10MC15</b>	Add-on safety module for door controls that do not have a safety circuit
<b>15.0075</b>	Harness for LO21, LO21B, LO21K, LO21P and LO21U
<b>15.0076</b>	Harness for 10MC15
<b>15.0082</b>	Harness for LO21S
<b>20.5083</b>	"Y" wiring harness for dual egress

## MATRIX FAMILY

### UL Listed Loop Detectors



#### FEATURES & BENEFITS

- UL Listed
- Available in single or dual loop models
- Two relay outputs
- Ideal for vehicle directionality and sequencing applications
- Settings are adjusted via two easy-to-use potentiometers
- Pulse-on-entry and pulse-on-exit presence detection

#### TECHNICAL SPECIFICATIONS

<b>Tuning</b>	Automatic
<b>Connector</b>	11-pin male (86CP11)
<b>Presence Time</b>	1 min – infinity
<b>Pulse Time Output</b>	100 ms or 500 ms
<b>LED Indicators</b>	Power: Green Loop Status 1: Red Loop Status 2: Red
<b>Frequency Range</b>	20 kHz – 130 kHz
<b>Frequency Steps</b>	Single Loop: 4 Double Loop: 2 (for each loop)
<b>Sensitivity (<math>\Delta L / L</math>)</b>	0.005% – 0.5%
<b>Reaction Time</b>	Single Loop: 25 ms Double Loop: 50 ms (each channel)
<b>Setup Time After Configuration</b>	2 s max by channel
<b>Power Supply (Depending on model)</b>	12 – 24 AC / DC $\pm 10\%$ 115 VAC $\pm 10\%$
<b>Power Frequency</b>	48 – 62 Hz
<b>Power Consumption</b>	< 2.5 W
<b>Temperature Range</b>	-22 – 158 °F (-30 – 70 °C)
<b>Protections</b>	Loop Insulation Transformer Zener Diodes Gas Discharge Clamping
<b>Inductance Range</b>	20 $\mu$ H – 1000 $\mu$ H

#### PRODUCT SERIES

<b>Frequency Steps</b>	86CP11 (Standard 11-Pin Round)
<b>Relay Outputs</b>	2 (free potential change-over contact) Max Contact Current 230 VAC Max Contact Voltage 5 A (resistive)
<b>Setup Time at Power On</b>	MATRIXD 8 s max by channel MATRIXIS 8 s max by channel MATRIX-3S 1.6 s max by channel MATRIX-3D 2.2 s max by channel
<b>Norm Conformance</b>	R&TTE: 1999 / 5 / EC; EMC: 89 / 336 / EEC; EMC: 89 / 336 / EE; EMC: 2004 / 108 / EC; FCC: 47 CFR 15 IC: RSS-210 IS-SUE 5; UL Listed equipment for UL 508
<b>Degree of Protection</b>	IP40
<b>Weight</b>	7 oz
<b>Dimensions</b>	1.5" (W) $\times$ 3.0" (H) $\times$ 3.0" (D)

See page 54 for Product Series





## MATRIX FAMILY

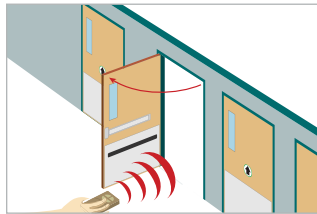
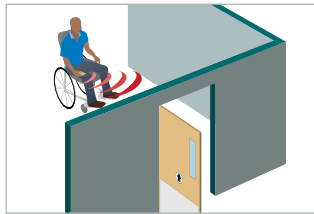
### UL Listed Loop Detectors

#### PRODUCT SERIES

P/N	Description
<b>10MATRIXD110</b>	110 – 120 VAC, dual loop detector
<b>10MATRIXD1224</b>	110 – 120 VAC / VDC, dual loop detector
<b>10MATRIXIIS110</b>	110 – 120 VAC, single loop detector
<b>10MATRIXIIS1224</b>	12 – 24 VAC / VDC, single loop detector
<b>10MATRIX-3-D</b>	12 – 24 VAC / VDC, dual loop detector (Socket NOT included)

#### PRODUCT SERIES CONT'D

P/N	Description
<b>10MATRIX-3-S</b>	12 – 24 VAC / VDC, single loop detector (Socket NOT included)
<b>10MATRIXHARN</b>	11-pin matrix harness, 72" (6') length
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC - 1.75 A
<b>10PS12-24D</b>	UL / ULC listed power supply 12 / 24 VDC with backup circuit 1.75 A (battery not included)
<b>70.0262</b>	11-pin socket based DIN rail



## 300 MHZ FAMILY

300 MHz wireless  
transmitters and receiver

### FEATURES & BENEFITS

- Hand-held transmitters outfitted with flag connectors plug directly into most of BEA's push plate switches
- Analog radio control for strong, short-range, transmissions

### TECHNICAL SPECIFICATIONS

<b>Frequency</b>	300 MHz
<b>Radio Control Type</b>	Analog
<b>Input Voltage</b>	24 VAC / VDC
<b>Operating Temperature</b>	14 – 131 °F
<b>Setup</b>	10 dip switch access code programming
<b>Power</b>	Hardwired: 1 9-volt or 12-volt battery Wireless: 1 9-volt or 12-volt battery
<b>Norm Conformance</b>	CE, FCC, IC
<b>Dimensions</b>	
Without Flange	3.2" (W) × 1.4" (H) × 4.9" (D)
With Flange	3.2" (W) × 1.4" (H) × 5.4" (D)

### PRODUCT SERIES

P/N	Description
<b>10R300</b>	300 MHz analog receiver
<b>10T300HH</b>	1-Button handheld transmitter (9-volt battery)
<b>10T300HHDBL</b>	2-Button handheld transmitter (9-volt battery)
<b>10T300HH4</b>	4-Button handheld transmitter (9-volt battery)
<b>10T300KEYCHAIN</b>	1-button keychain transmitter (12-volt battery)
<b>10T300MINIPB</b>	1-button miniature wired transmitter (12-volt battery)
<b>10T300PB</b>	Wired transmitter no case (9-volt battery) with flag connectors
<b>70.0260</b>	12-volt battery, Energizer
<b>70.0261</b>	9-volt battery, Energizer



## 433 MHZ FAMILY

433 MHz wireless transmitters and receivers

### FEATURES & BENEFITS

- Delay or no delay programming options (i.e. vestibule sequencing applications)
- Up to 100 transmitters can be programmed into a single receiver
- Can remove transmitter codes individually or all at once
- Ideal for wireless activation and/or sequencing of automatic doors
- Universally compatible with all types of automatic doors
- Extended hold time receiver will hold door open for as long as button is pressed
- Toggle or pulse mode selectable by DIP switch
- 0.5 or 10 second relay hold time

### TECHNICAL SPECIFICATIONS

<b>Frequency</b>	433 MHz
<b>Radio Control Type</b>	Digital
<b>Emitted Radio Power</b>	-28.7 dBm (transmitter)
<b>Power Consumption</b>	3 mA (transmitter); 30 mA (receiver)

#### Power

Hardwired	1 9-volt or 3-volt battery
Handheld	1 3-volt battery

<b>Input Voltage</b>	12 – 24 VAC / VDC (receiver)
----------------------	------------------------------

<b>Contact Rating</b>	1.0 A @ 30 VDC
	0.5 A @ 125 VAC
	0.3 A @ 60 VDC

<b>Operating Temperature</b>	14 – 131 °F (-10 – 55 °C)
------------------------------	---------------------------

<b>Capacity</b>	100 transmitters
-----------------	------------------

#### LEDs

Receiver / Transmitter Learn	RED
Relay Activity	BLUE

#### Dimensions

Receiver	2.125" (W) × 1.0" (H) × 2.75" (D)
Transmitter	1.375" (W) × 0.6" (H) × 2.75" (D)

<b>Norm Conformance</b>	CE, FCC, IC
-------------------------	-------------

### PRODUCT SERIES

P/N	Description
<b>10RD433</b>	433 MHz receiver
<b>10RD433EH</b>	Extended hold time receiver
<b>10TD433HH1</b>	1-Button handheld transmitter (3-volt battery)
<b>10TD433HH2</b>	2-Button handheld transmitter (3-volt battery)
<b>10TD433HH3</b>	3-Button handheld transmitter (3-volt battery)
<b>10TD433HH4</b>	4-Button handheld transmitter (3-volt battery)
<b>10TD433PB3V</b>	1-Button, 3-volt wired transmitter with flag connector
<b>10TD433PB9V</b>	1-Button, 9-volt wired transmitter with flag connector
<b>30.5124</b>	3-volt lithium coin battery
<b>70.0261</b>	9-volt battery, Energizer

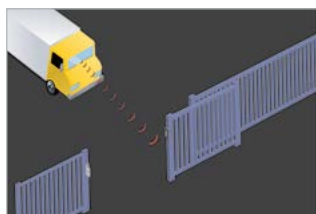


## 900 MHZ FAMILY

900 MHz wireless  
transmitters and receiver

### FEATURES & BENEFITS

- A combination of the industry's most compact 900 MHz transmitters and receiver for optimal installation convenience
- Multi-color LEDs on receiver provides installer with visual notification of signal strength and activation status
- Frequency hopping allows consistent transmission in areas with other 900 MHz devices
- A compact battery-powered, hardwired transmitter is ideal for push plate applications
- 1, 2, 3 and 4 button hand-held transmitters provide flexibility where multiple receivers are used



### TECHNICAL SPECIFICATIONS

<b>Frequency</b>	908 – 918 MHz (frequency hopping)
<b>Emitted Radio Power</b>	-25 dBm (TX)
<b>Power Consumption</b>	
RD900	40 mA
TD900HHx	30 mA
TD900PB	30 mA
TD900TR	22 mA
TD900INDHHx	13 mA
<b>Supply Voltage</b>	12 – 24 VAC / VDC
<b>Contact Rating</b>	1.0 A @ 30 VDC 0.5 A @ 125 VAC 0.3 A @ 60 VDC
<b>Temperature Range</b>	14 – 131 °F (-10 – 55 °C)
<b>Programmable Units Per Receiver</b>	75
<b>LEDs</b>	
Red	Receiver learn
Blue	Relay activation
Tri-color	Signal strength
<b>Dimensions</b>	
RD900	2.50" (W) × 0.75" (H) × 2.00" (D)
TD900HHx	2.75" (W) × 0.56" (H) × 1.38" (D)
TD900PB	1.75" (W) × 0.30" (H) × 1.00" (D)
TD900TR	1.72" (W) × 0.32" (H) × 1.06" (D)
TD900INDHHx	1.50" (W) × 0.50" (H) × 3.00" (D)

### TECHNICAL SPECIFICATIONS CONT'D

<b>Certification</b>	FCC, IC
<b>Norm Conformance</b>	
TD900INDHHx	NEMA 4 / IP65

### PRODUCT SERIES

P/N	Description
<b>10RD900</b>	900 MHz receiver module
<b>10TD900HH1</b>	1-Button handheld transmitter (3-volt battery)
<b>10TD900HH1U</b>	Universal transmitter
<b>10TD900HH2</b>	2-Button handheld transmitter (3-volt battery)
<b>10TD900HH3</b>	3-Button handheld transmitter (3-volt battery)
<b>10TD900HH4</b>	4-Button handheld transmitter (3-volt battery)
<b>10TD900INDHH1</b>	1-Button handheld transmitter, NEMA 4 rated
<b>10TD900INDHH2</b>	2-Button handheld transmitter, NEMA 4 rated
<b>10TD900INDHH3</b>	3-Button handheld transmitter, NEMA 4 rated
<b>10TD900INDHH4</b>	4-Button handheld transmitter, NEMA 4 rated
<b>10TD900PB</b>	Hardwired transmitter (two AAA batteries) with flag connector
<b>10TD900TR</b>	Retrofit transmitter
<b>10BELTCLIP</b>	Belt clip accessory for 10TD900INDHH series
<b>30.5124</b>	3-volt lithium coin battery



Highly Accurate  
LASER Technology



Motion, Presence &  
Safety Detection



Virtual  
Pull-cord



## LZR<sup>®</sup> WIDESCAN

Unwanted door cycles, reckless forklift drivers and harsh environments impact the performance of industrial doors, facility operations and energy efficiency as a whole.

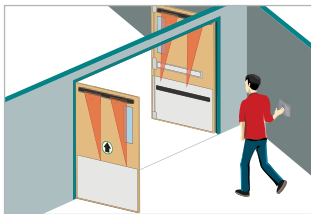
BEA's LZR<sup>®</sup>-WIDESCAN alleviates these challenges through:

- ▶ Intelligent software that can be configured to filter pedestrians and cross-traffic
- ▶ Precise and versatile detection fields that enhance safety around the door
- ▶ LASER technology that ignores changing ground conditions



## 4.5 INCH ROUND & SQUARE PUSH PLATES

Stainless steel  
actuators



### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Various text, graphic and logo options available
- Compatible with both surface and flush mount boxes

PUSH  
PLATES

### TECHNICAL SPECIFICATIONS

Faceplate Material	16 gauge, 304 2B Stainless Steel
Backplate Material	1/8 inch thick, Aluminum
Mounting Screws	Stainless Steel, 6-32 x 1" & 8-32 x 1" 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

P/N	Description
10PBR45	4.5" round - "Push to Open" text only
10PBR451	4.5" round - "Push to Open" text & handicap logo
10PBR4510	4.5" round - plain face
10PBR45LL	4.5" round - handicap logo only
10PBS2GBLK	4.5" square - low profile "Push to Open" text only
10PBS45	4.5" square - "Push to Open" text only
10PBS451	4.5" square - "Push to Open" text & handicap logo
10PBS4510	4.5" square - plain face
10PBS45LL	4.5" square - handicap logo only
10PBS45POD	4.5" square - "Press to Operate Door" text only
10PBS45B	4.5" square - "Push to Open" text only, white text on blue plate
10PBS451B	4.5" square - "Push to Open" text & handicap logo. White text on blue plate
10PBS451AL	4.5" square - "Push to Open" text & alternate handicap logo

See page [96](#) for Bollard information

See page [97](#) for Boxes and Bracket information

See pages [55-57](#) for Transmitters and Receivers information



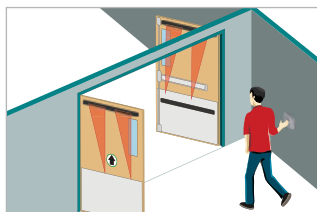
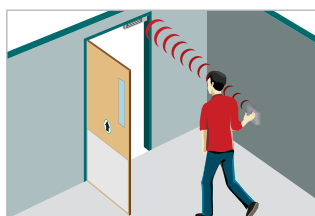
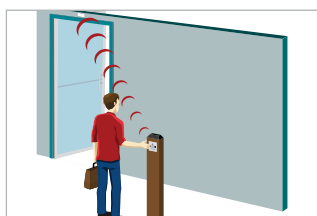
## 4.75 INCH SQUARE PUSH PLATES

Stainless steel  
actuators



### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Various text, graphic and logo options available
- Compatible with both surface and flush mount boxes



### TECHNICAL SPECIFICATIONS

<b>Faceplate Material</b>	16 gauge, 304 2B Stainless Steel
<b>Backplate Material</b>	1/8 inch thick, Aluminum
<b>Mounting Screws</b>	Stainless Steel, 6-32 x 1" & 8-32 x 1" Allen Head Size: 5/64
<b>Cherry Switch</b>	Single-pole, 15 A, COM / NO / NC, UL Recognized
<b>Compatible Wireless Frequencies</b>	900, 433 or 300 MHz

### PRODUCT SERIES

P/N	Description
<b>10PBS</b>	4.75" square - "Push to Open" text only
<b>10PBS1</b>	4.75" square - "Push to Open" text & handicap logo
<b>10PBSLL</b>	4.75" square - handicap logo only
<b>10PBS10</b>	4.75" square - plain face
<b>10PBSE</b>	4.75" square - "Push to Exit" text only
<b>10PBS1B</b>	4.75" square - "Push to Open" text & handicap logo. White text on blue plate
<b>10PBS1SB</b>	4.75" square - "Push to Open" text & handicap logo. Blue text on satin brass plate
<b>10PBS1BB</b>	4.75" square - "Push to Open" text & handicap logo. Blue text on bright brass plate
<b>10PBS1AL</b>	4.75" square - "Push to Open" text & alternate handicap logo
<b>20.0044</b>	Screw kit for all 4.75" square plates include: (2) #6 and (2) # 8 screws (2) flag connectors (1) hex key

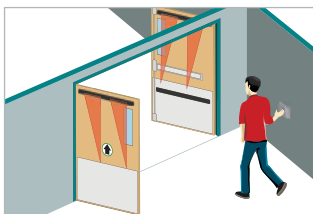
See page [96](#) for Bollard information

See page [97](#) for Boxes and Bracket information

See pages [55-57](#) for Transmitters and Receivers information

## 6 INCH ROUND & SQUARE PUSH PLATES

Stainless steel  
actuators



### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Various text, graphic and logo options available
- Compatible with both surface and flush mount boxes

PUSH  
PLATES

### TECHNICAL SPECIFICATIONS

Faceplate Material	16 gauge, 304 2B Stainless Steel
Backplate Material	1/8 inch thick, Aluminum
Mounting Screws	Stainless Steel, 6-32 x 1 in & 8-32 x 1 in 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

P/N	Description
10PBR	6" round - "Push to Open" text only
10PBR1	6" round - "Push to Open" text & handicap logo
10PBRLL	6" round - handicap logo only
10PBR10	6" round - plain face
10PBR1AL	6" round - "Push to Open" text & alternate handicap logo
10PBS6	6" square - "Push to Open" text only
10PBS61	6" square - "Push to Open" text & handicap logo
10PBS6LL	6" square - handicap logo only
10PBS610	6" square - plain face
20.0044	Screw kit for all 6" round plates include: (2) #6 and (2) # 8 screws (2) flag connectors (1) hex key

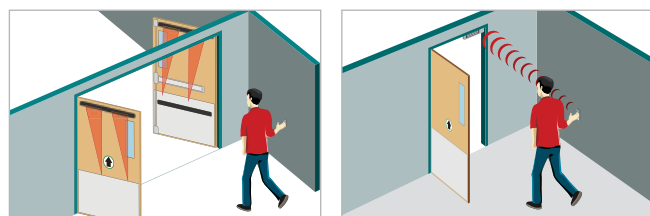
See page [96](#) for Bollard information

See page [97](#) for Boxes and Bracket information

See pages [55-57](#) for Transmitters and Receivers information

# JAMB PUSH PLATES

Stainless steel  
actuators



## FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Various text, graphic and logo options available
- Compatible with both surface and flush mount boxes
- Compatible with the following transmitters only: 10TD433PB3V, 10TD300MINIPB or 10TD900PB

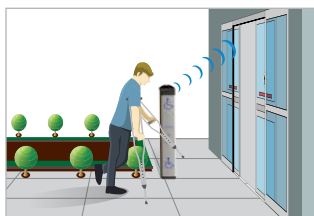
## TECHNICAL SPECIFICATIONS

<b>Faceplate Material</b>	16 gauge, 304 2B Stainless Steel
<b>Backplate Material</b>	1/8 inch thick, Aluminum
<b>Mounting Screws</b>	Stainless Steel, 6-32 x 1" & 8-32 x 1" Allen Head Size: 5/64
<b>Cherry Switch</b>	Single-pole, 15 A, COM / NO / NC, UL Recognized
<b>Compatible Wireless Frequencies</b>	900, 433 or 300 MHz
<b>Faceplate Dimensions</b>	1.50" (W) x 4.75" (H) x 0.62" (D)

## PRODUCT SERIES

P/N	Description
<b>10PBJ</b>	"Push to Open" text only
<b>10PBJ1</b>	"Push to Open" text & handicap logo
<b>10PBJL</b>	Handicap logo only
<b>10PBJ10</b>	Plain face
<b>10PBJE</b>	"Push to Exit" text only
<b>10PBJSREV</b>	"Push to Slow" text with braille White text on blue plate
<b>10PBJ1B</b>	"Push to Open" text & handicap logo White text on blue plate
<b>10PBJLB</b>	Handicap logo only White text on blue plate
<b>10PBJM1</b>	"Push to Open" text & handicap logo Microswitch
<b>10PBJML</b>	Handicap logo only - Microswitch
<b>10PBJMSLL</b>	Handicap logo only Microswitch (Hardwired only)
<b>10PBJMS1</b>	"Push to Open" text & handicap logo Microswitch (hardwired only)

See page [97](#) for Boxes and Bracket information  
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## LPR36

Full-length, 36 inch  
high-low actuator

### FEATURES & BENEFITS

- Full length plate for maximum accessibility
- Low profile (one inch deep) stainless steel design helps prevent accidental damage in high traffic areas
- Exceeds California Building Code 2013, Page 559, 11B-404.2.9, Exception 2c
- Easily installs on either walls or bollards for maximum mounting flexibility
- Available with convenient, built-in wireless transmitter (300, 433 or 900 MHz frequencies) for wireless activation applications
- Activation area of 36 × 6 inches (216 square inches)

PUSH  
PLATES

### TECHNICAL SPECIFICATIONS

<b>Contact Configuration</b>	SPST N.O.
<b>Switching Voltage</b>	0.1 – 50 VDC
<b>Switching Capacity</b>	1 Watt
<b>Switching Current</b>	0.005 – 100 mA DC
<b>Operation Temperature</b>	-32 – 212 °F (-35 – 100 °C)
<b>Base Material</b>	6063 Aluminum
<b>Face Plate</b>	304 Stainless Steel
<b>Switch Actuator Material</b>	Nylon 66
<b>End Cap Material</b>	UL94 ABS
<b>Hardware</b>	Stainless Steel
<b>Compliance</b>	California Building Code 2013, Page 559, 11B-404.2.9, Exception 2c

### PRODUCT SERIES

P/N	Description
<b>10LPR36-300</b>	300 MHz Text & Logos
<b>10LPR36L-300</b>	300 MHz Logos only
<b>10LPR36-433</b>	433 MHz Text & Logos
<b>10LPR36L-433</b>	433 MHz Logos only
<b>10LPR36-900</b>	900 MHz Text & Logos
<b>10LPR36L-900</b>	900 MHz Logos only
<b>10LPR36-HW</b>	Hard wired only, Text & Logos
<b>10LPR36L-HW</b>	Hard wired only, Logos only
<b>10LPRCAPKIT</b>	Includes top and bottom replacement caps for the 10LPR36
<b>10R300</b>	300 MHz analog receiver
<b>10RD433</b>	433 MHz receiver
<b>10RD433EH</b>	Extended hold time receiver
<b>10RD900</b>	900 MHz receiver
<b>10WCK433*</b>	Converts LPR36 from hardwired to wireless for 433 frequency
<b>10WCK900*</b>	Converts LPR36 from hardwired to wireless for 900 frequency

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

See page [97](#) for Boxes and Bracket information  
See pages [55-57](#) for Transmitters and Receivers information



## PANTHER PUSH PLATES

Push plates with integrated  
wireless technology

### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners minimize vandalism
- NEMA 4 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 Inch Round	6.33" (ø) × 1.45" (D)
4.75 Inch Round	5.12" (ø) × 1.42" (D)
4.75 Inch Square	5.12" (W) × 5.12" (H) × 1.42" (D)

#### Weight

6 Inch Round	1.2 lbs
4.75 Inch Round	1.14 lbs
4.75 Inch Square	1.04 lbs

**Mounting Options** Surface or bollard mount

**Transmitter Frequency** 433 MHz or 900 MHz

#### Power

433 MHz	(1) 12 V Type A23
900 MHz	(2) CR2032

#### Material

Faceplate	16 Gauge, 304 2B Stainless Steel
Housing	ABS Plastic

**Degree of Protection** NEMA 4 / IP65  
FCC IC Part 15 Approved

### PRODUCT SERIES

<b>10EMR475</b>	4.75" round - 433 MHz "Push To Open" text only
<b>10EMR475-900</b>	4.75" round - 900 MHz "Push To Open" text only

### PRODUCT SERIES CONT'D

P/N	Description
<b>10EMR475L</b>	4.75" round - 433 MHz Handicap logo only
<b>10EMR475L-900</b>	4.75" round - 900 MHz Handicap logo only
<b>10EMR4751</b>	4.75" round - 433 MHz Text & Logo
<b>10EMR4751-900</b>	4.75" round - 900 MHz Text & Logo
<b>10EMR6</b>	6" round - 433 MHz "Push To Open" text only
<b>10EMR6-900</b>	6" round - 900 MHz "Push To Open" text only
<b>10EMR6L</b>	6" round - 433 MHz Handicap logo only
<b>10EMR6L-900</b>	6" round - 900 MHz Handicap logo only
<b>10EMR61</b>	6" round - 433 MHz Text & Logo
<b>10EMR61-900</b>	6" round - 900 MHz Text & Logo
<b>10EMS475</b>	4.75" square - 433 MHz "Push To Open" text only
<b>10EMS475-900</b>	4.75" square - 900 MHz "Push To Open" text only
<b>10EMS475L</b>	4.75" square - 433 MHz Handicap logo only
<b>10EMS475L-900</b>	4.75" square - 900 MHz Handicap logo only
<b>10EMS4751</b>	4.75" square - 433 MHz Text & Logo
<b>10EMS4751-900</b>	4.75" square - 900 MHz Text & Logo
<b>15.5039</b>	Spare PCB for PANTHER plate - 433 series
<b>15.5142</b>	Spare PCB for PANTHER plate - 900 series

See page 97 for Boxes and Bracket information

See pages 55-57 for Transmitters and Receivers information



## SINGLE GANG PUSH PLATES

Stainless steel  
actuators



### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Various text, graphic and logo options available
- Compatible with both surface and flush mount boxes

PUSH  
PLATES

### TECHNICAL SPECIFICATIONS

<b>Faceplate Material</b>	16 gauge, 304 2B Stainless Steel
<b>Backplate Material</b>	1/8 inch thick, Aluminum
<b>Mounting Screws</b>	Stainless Steel, 6-32 x 1" & 8-32 x 1" Allen Head Size: 5/64
<b>Cherry Switch</b>	Single-pole, 15 A, COM / NO / NC, UL Recognized
<b>Compatible Wireless Frequencies</b>	900, 433 or 300 MHz

### PRODUCT SERIES

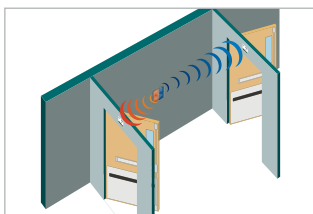
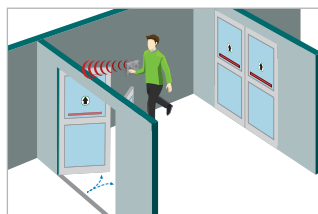
P/N	Description
<b>10PBO241</b>	"Push to Open" text & handicap logo
<b>10PBO24L</b>	Handicap logo only
<b>10PBO2410</b>	Plain face
<b>10PBO24E</b>	"Push to Exit" text only

See page [97](#) for Boxes and Bracket information  
See pages [55-57](#) for Transmitters and Receivers information



## VESTIBULE PUSH PLATES

Stainless steel  
actuator



### FEATURES & BENEFITS

- 1/16 inch thick stainless steel for maximum durability
- Concealed fasteners to minimize vandalism
- Complete kits available including plates, mounting boxes and optional wireless devices for ease of ordering
- Compatible with both surface and flush mount boxes

### TECHNICAL SPECIFICATIONS

Faceplate Material	16 gauge, 304 2B Stainless Steel
Backplate Material	1/8" thick, Aluminum
Mounting Screws	Stainless Steel, 6-32 x 1" & 8-32 x 1" Allen Head Size: 5/64
Cherry Switch	Single-pole, 15 A, COM / NO / NC, UL Recognized
Compatible Wireless Frequencies	900, 433 or 300 MHz
Faceplate Dimensions	4.75" (W) x 4.75" (H) x 0.62" (D)

### PRODUCT SERIES

P/N	Description
	Stainless steel dual Push Plate for vestibule includes:
10PBDGP1	One (1) adapter ring, two (2) separate Push Plates with "Push to Open" text and handicap logo <i>Requires two (2) 10TD433PB3V or two (2) 10TD900PB transmitters</i>

See page [96](#) for Bollard information

See page [97](#) for Boxes and Bracket information

See pages [55-57](#) for Transmitters and Receivers information



## MS08

Adjustable range  
microwave touchless actuator

### FEATURES & BENEFITS

- Detection zone from 4 to 24 inches (pulse or toggle)
- Silent activation for hospitals and other noise-sensitive environments
- Water-resistant foam gasket provides increased reliability when exposed to liquid or cleaning products
- Low profile, beveled design reduces chance of accidental damage in high traffic areas
- Available in white, black or cream faceplate; options for single or double gang boxes
- Multiple faceplate graphic options available



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Radiated Frequency	24.125 GHz
Radiated Power Density	5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion (bidirectional)
<b>Detection Range</b>	4 – 24" (adjustable)
<b>Output</b>	Relay with switch-over contact (voltage free)
Max. Contact Current	1 A (resistive)
Max. Contact Voltage	60 VDC / 125 VAC
Adjustable Hold Time	30 W (DC) / 60 VA (AC)
<b>Output Hold Time</b>	0.5 s (in pulsed mode)
<b>Mains Frequency</b>	50 – 60 Hz
<b>Supply Voltage</b>	12 – 24 VAC ±10% 12 – 24 VDC 30% / -10%
<b>Power Consumption</b>	< 1.5 W
<b>Material</b>	ASA, Nylon, PC
<b>Cable Type</b>	Standard cable up to 16 AWG - 1.5 mm <sup>2</sup>
<b>Temperature Range</b>	-4 – 131 °F (-20 – 5 °C)
<b>Norm Conformance</b>	EMC: 2004 / 108 / EC; FCC: G9B-MS08; IC: 4680A-MS08

### MOUNTING OPTIONS

<b>10BOX24SGSM</b>	Standard single gang surface mount box (2.75" x 4.5")
<b>10BOXDGS</b>	Standard double gang surface mount box (4.5" x 4.5")

### PRODUCT SERIES

P/N	Description
<b>10MS08U</b>	Includes single (70.5226) and double gang (70.5227) black faceplates
<b>MS08UCUSTOM</b>	10MS08U plus choice of any one of the additional faceplates
<b>10RD900</b>	900 MHz receiver module
<b>10TD900TR</b>	900 MHz retrofit transmitter
<b>70.5226</b>	Single gang black with text
<b>70.5227</b>	Double gang black with text
<b>70.5268</b>	Single gang white with text
<b>70.5269</b>	Double gang white with text
<b>70.5270</b>	Single gang cream with text
<b>70.5271</b>	Double gang cream with text
<b>70.5272</b>	Single gang solid black
<b>70.5273</b>	Double gang solid black
<b>70.5274</b>	Single gang solid white
<b>70.5275</b>	Double gang solid white
<b>70.5276</b>	Single gang solid cream
<b>70.5277</b>	Double gang solid cream
<b>70.5278</b>	Single gang black with handicap logo only
<b>70.5279</b>	Double gang black with handicap logo only



## MS09

NEMA 4 rated,  
microwave touchless actuator

### FEATURES & BENEFITS

- NEMA 4 / IP65 enclosure capable of use in industrial and extreme environments, as well as washdown facilities
- User defined detection zone from 4 to 24 inches (pulse or toggle)
- Can be used in a variety of outdoor and off-door applications
- External mounting boxes are not required



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Radiated Frequency	24.125 GHz
Radiated Power Density	5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion (bidirectional)
<b>Detection Range</b>	4 – 24" (adjustable)
<b>Output</b>	Relay with switch-over contact (free of potential)
Max. Contact Current	60 VDC / 125 VAC
Max. Contact Voltage	1 A (resistive)
Max. Switching Power	30 W (DC) / 60 VA (AC)
<b>Output Hold Time</b>	0.5 s (in pulse mode)
<b>Supply Voltage</b>	12 – 24 VAC ±10% 12 – 24 VDC 30% / -10%
<b>Power Consumption</b>	< 1.2 W
<b>Material / Colors</b>	ABS / PC, White
<b>Cable Type</b>	Compatible with standard, 4-conductor low voltage cable (cable not supplied)
<b>Temperature Range</b>	-4 – 131 °F (-20 – 55 °C)
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Norm Conformance</b>	EMC: 2004 / 108 / EC FCC: G9B-MS08 / 2ABWS-10TD900PB IC: 4680A-MS08 / 4680A-10TD900PB
<b>Dimensions</b>	3.15" (W) × 3.23" (H) × 2.165" (D)

### PRODUCT SERIES

P/N	Description
<b>10MS09TL</b>	Wave to Open text and logo
<b>10MS09L</b>	Hand wave logo only
<b>10RD900</b>	900 MHz receiver module
<b>10TD900TR</b>	900 MHz retrofit transmitter

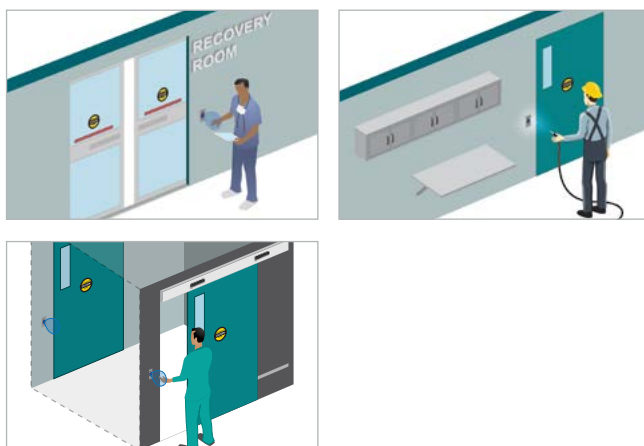


## MS11

Adjustable range, stainless steel  
microwave touchless actuator

### FEATURES & BENEFITS

- NEMA 4 (IP65) enclosure capable of use in industrial and extreme washdown environments
- Illuminated blue center changes to green upon signal reception/activation
- Adjustable sensing zone from 2 to 24 inches (pulse or toggle)
- Adjustable audible alert setting, including silent-mode required for hospitals and other noise-sensitive environments
- Configurable output hold time of one to 30 seconds allowing unique, user-defined device placement
- Compatible with all automatic door control makes and models



### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
<b>Detection Mode</b>	Motion (bidirectional), Toggle or Timed Mode
<b>Sensing Zone</b>	2 – 24" (adjustable)
<b>Hold Time</b>	1 – 30 s
<b>Alert Settings</b>	
Audible Alert	Silent Mode or Signal Mode
Visual Alert	Blue (Standby) Green (Activation)
<b>Supply Voltage</b>	12 – 24 VAC / VDC or 5 VDC
<b>Current Consumption</b>	< 2.8 W
<b>Temperature Range</b>	-22 – 158 °F
<b>Enclosure Rating</b>	NEMA 4 / IP65
<b>Relay</b>	1-Form C Solid State Relay 1 A 30 VAC / VDC (max)
<b>Dimensions</b>	
Single Gang	2.75" (W) × 4.50" (H) × 0.98" (D)
Double Gang	4.50" (W) × 4.50" (H) × 0.98" (D)
Jamb	1.68" (W) × 4.50" (H) × 0.98" (D)
<b>Wire Harness Length</b>	12"
<b>Material</b>	Stainless Steel (faceplate) / ABS (center)

### PRODUCT SERIES

P/N	Description
<b>10MS11D</b>	Stainless steel double gang
<b>10MS11DW</b>	White powdercoat double gang
<b>10MS11J</b>	Stainless steel jamb style
<b>10MS11JW</b>	White powdercoat jamb style
<b>10MS11S</b>	Stainless steel single gang
<b>10MS11SW</b>	White powdercoat single gang
<b>10RD900</b>	900 MHz receiver module
<b>10TD900TR</b>	900 MHz retrofit transmitter

### MOUNTING OPTIONS

P/N	Description
<b>10ABOXSGSMS</b>	Single gang angled mounting box (2.75" × 4.5")
<b>10BOX24SGSM</b>	Standard single gang surface mount box (2.75" × 4.5")
<b>10BOXDGSM</b>	Standard double gang surface mount box (4.5" × 4.5")
<b>10BOXJAMBST</b>	Jamb mount box (1.75" × 4.5")

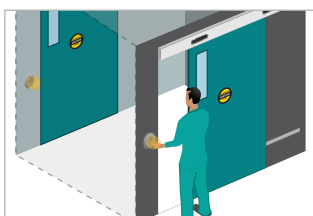


## MS21H

Short-range  
capacitive touchless actuator

### FEATURES & BENEFITS

- Short range detection zone reduces unwanted activations
- LED illuminated mounting ring increases visibility
- Stainless steel faceplate is ideal for harsh environments
- Low profile, beveled design reduces accidental damage
- Various faceplate graphic options available
- Adjustable audible alerts, visual alerts and touchless detections zones
- NEMA 4 enclosure
- Compatible with all automatic door control makes and models



### TECHNICAL SPECIFICATIONS

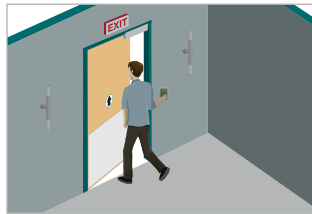
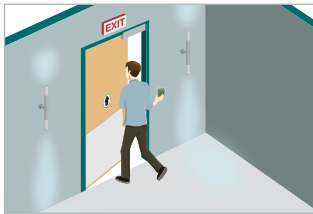
<b>Technology</b>	Capacitance
<b>Detection Mode</b>	Proximity
<b>Supply Voltage</b>	12 – 24 VAC / VDC
<b>Current Consumption</b>	37 mA (typical)
<b>Temperature Range</b>	-20 – 120 °F
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Detection Zone</b>	Maximum detection zone of up to 4 inches Detection zone is dependent on: Size (area) of an object   orientation of an object   speed of an object   environmental conditions
<b>Relay</b>	1 Form A solid-state relay; 0.4 A, 60 VAC / VDC (Max.)
<b>Cable Length</b>	6" (5-conductor)
<b>Material</b>	Stainless Steel (faceplate) Clear Polycarbonate (Mounting Ring, Backplate and Enclosure)

### PRODUCT SERIES

P/N	Description
<b>10MS21HR1</b>	6" round, text and logo
<b>10MS21HR</b>	6" round, text only
<b>10MS21HRLL</b>	6" round, logo only
<b>10MS21HS1</b>	4.75" square, text and logo
<b>10MS21HS</b>	4.75" square, text only
<b>10MS21HSLL</b>	4.75" square, logo only
<b>10RD900</b>	900 MHz receiver module
<b>10TD900TR</b>	900 MHz retrofit transmitter
<b>20.2007</b>	Isolation module harness

## ACCESS CONTROL PUSH BUTTON

Illuminated,  
push to exit button



### FEATURES & BENEFITS

- Easily replaced 12 to 24 VAC / VDC light bulb, reducing whole-product replacement
- Stainless steel faceplate
- Vandal / tamper resistant design
- Tested to perform more than one million operations

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Mechanical switch and light socket
<b>Faceplate Dimensions</b>	Single Gang - 2.75" (W) x 4.5" (H)
<b>Visual Style</b>	Illuminated Green button that signals activation, which can also be disabled
<b>Materials</b>	Stainless steel faceplate with tamper-resistant screws
<b>Input Power</b>	10 A @ 125 / 250 VAC
<b>Time Range</b>	Momentary switch, no delay
<b>Bulb Power</b>	
High Volt Bulb	60 mA @ 24 VDC (P/N C656)
Low Volt Bulb	190 mA @ 12 VDC (P/N CM-161)
<b>Relay</b>	SPDT, color coded wiring (Open / Closed)

### PRODUCT SERIES

P/N	Description
<b>10ACPBSS1</b>	Push Button - green Illuminated, "Push To Exit", single gang





## CABINET LOCK

80 lb  
ELECTROMAGNETIC LOCK

### FEATURES & BENEFITS

- Designed for access control in low holding force applications

### TECHNICAL SPECIFICATIONS

**Door Configuration** Single / cabinet, surface mount

**Holding Force** 80 lb

**Input Voltage** 12 or 24 VDC

**Current Draw** 100 mA @ 12 VDC  
50 mA @ 24 VDC

**Magnet Weight** 0.44 lbs

#### Material

Lock Housing Aluminum  
Armature Plate Zinc Plated Steel

**Dimensions** 2.75" (W) × 1.22" (H) × 0.70" (D)

### PRODUCT SERIES

P/N	Description
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<b>10MAGLIFELOCK9</b>	Single / cabinet lock, 12 / 24 VDC - 80 lb
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## DELAYED EGRESS MAGLOCK KIT

UL listed, all-in-one kit with maglock, sounder and keyswitch



### FEATURES & BENEFITS

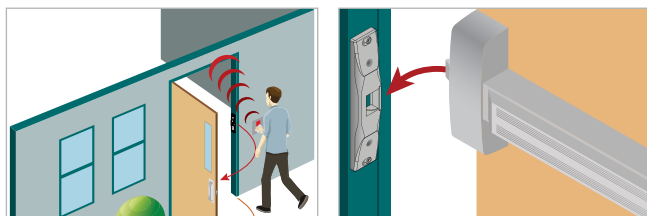
- Double door (two single doors) can be synchronized
- Authorized egress time programmable from zero to 15 seconds
- Selectable 30-second door prop alarm
- LED color and flashes can be customized
- Monitored fire alarm input
- Delayed Egress can be triggered with pressure on the door or with a REX input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

### TECHNICAL SPECIFICATIONS

<b>Housing Dimensions</b>	10.8125" (W) × 2.875" (H) × 2.215" (D)
<b>Armature Dimensions</b>	7.4375" (W) × 2.375" (H) × 0.625" (D)
<b>Voltage / Tolerance</b>	12 – 24 VDC; ±10%
<b>Max. Power / Current Draw</b>	
Maglock & Sounder	0.49 A / 12 VDC 0.24 A / 24 VDC
Low Voltage Supply Detection / Alarm	< 8 V
<b>Holding Force</b>	Up to 1200 lbs
<b>Mortise Cylinder</b>	1.125 in cylinder with straight cam required, NOT INCLUDED Requires Part 10CYLINDERKA or 10CYLINDERKD
<b>Operating Temperature</b>	14 – 140 °F
<b>Norm Conformance</b>	UL / CUR Listed FWAX Special locking arrangements
<b>Compliance Provisions</b>	IBC, SBC, UBC, BOCA, or NBC of Canada, NFPA 101

### PRODUCT SERIES

P/N	Description
	All-in-one DELAYED EGRESS MAGLOCK KIT for single outswinging doors UL / ULC listed, LED status, 12 / 24 VDC Kit includes: (1) 1200 lb maglock (1) resettable keyswitch (mortise cylinder not included) (1) external sounder (1) alarm signage <b>UL listed MAGLOCKS require a UL listed power supply</b>
<b>10MAGDE1</b>	
<b>10CYLINDERKA</b>	1.125" mortise cylinder, Schlage C Keyway, keyed alike
<b>10CYLINDERKD</b>	1.125" mortise cylinder, Schlage C Keyway, keyed differently
<b>10PS12-24</b>	UL / ULC Listed power supply 12 / 24 VDC - 1.75 A
<b>10PS12-24D</b>	UL / ULC Listed power supply 12 / 24 VDC with backup circuit 1.75 A (Battery not included)
	Signage for 10MAGDE1
<b>50.0336</b>	"Push until alarm sounds door can be opened within 15 seconds"



## ELECTRIC STRIKES

Rim exit & universal cylindrical strikes  
for access control

### FEATURES & BENEFITS

- Three modular faceplates for the most common door types: hollow metal, aluminum and wood
- Accepts 0.50 or 0.625 inch latch projections - a perfect compliment for narrow style aluminum frames
- UL 294 listed
- Conventional keeper design promotes even-load distribution in the event of a forced entry
- Reinforced housing reduces twisting on imperfect frames
- UL / ULC listed for up to 1500 lbs of static strength

### TECHNICAL SPECIFICATIONS

#### 10STRIKERE

<b>Mode</b>	Fail Safe		
<b>Supply Voltage</b>	12 VAC / VDC	24 VAC / VDC	11 VAC / 16 VDC
<b>Duty</b>	Intermittent, Continuous	Intermittent, Continuous	Intermittent, Intermittent
<b>Sound</b>	Buzz, Silent	Buzz, Silent	Buzz, Buzz
<b>Amps †</b>	0.30, 0.50	0.64, 0.24	0.28, 0.50
<b>Ohms ‡</b>	22, 22	22, 89	22, 22

#### 10STRIKECU

<b>Mode</b>	Fail Safe, Fail Secure		
<b>Supply Voltage</b>	12 VDC	24 VDC	12 – 24 VAC
<b>Duty</b>	Continuous	Continuous	Intermittent
<b>Sound</b>	Silent	Silent	Buzz
<b>Amps †</b>	0.375	0.190	0.280-0.565
<b>Ohms ‡</b>	37	148	37

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

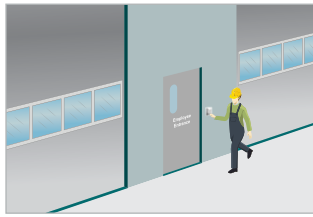
**Continuous Duty** – Energized 1 minute or more

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

‡ Nominal resistance at 77 °F ±7% tolerance

### PRODUCT SERIES

P/N	Description
<b>10STRIKECU</b>	UL / ULC Listed UNIVERSAL CYLINDRICAL ELECTRIC STRIKE with three faceplates for aluminum, hollow metal and wood frame installations
<b>10STRIKERE</b>	UL / ULC Listed surface mounted electric strike for Rim Exit Device



## KEYSWITCHES

Access control  
switch plate

### FEATURES & BENEFITS

- Aluminum wall plate with tamper-resistant screws
- Available in jamb and single wall plates or double gang combo-plate
- Available with momentary or maintained contact
- Capable of switching 6A at 125 VAC or 3A at 250 VAC
- Combo plate allows for independent operation of the push plate and keyswitch, or allows the keyswitch to enable or disable the push plate
- Mortise cylinders sold separately

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Mechanical Key Access
<b>Faceplate Dimensions</b>	
Jamb	1.75" (W) × 4.75" (H) × 0.25" (D)
Single Gang	3.00" (W) × 4.75" (H) × 0.25" (D)
Combo-plate	4.50" (W) × 4.50" (H) × 0.25" (D)
<b>Visual Style</b>	Combo-plate: Handicap symbol and "Push To Open" text
<b>Materials</b>	Aluminum wall plate with tamper-resistant screws
<b>Switch Rating</b>	6A @ 125 VAC or 3A @ 250 VAC
<b>Mortise Cylinder</b>	1 1/8 in cylinder with straight cam required, NOT INCLUDED (Requires Part 10CYLINDERKA or 10CYLINDERKD)

### MOUNTING OPTIONS

P/N	Description
10BOXDGSM	Standard double gang surface mount box (4.5" × 4.5") <b>*Compatible with the 10COMBOPLATE only</b>

### PRODUCT SERIES

P/N	Description
10COMBOPLATE	Jamb push plate combined with maintained keyswitch on a double gang faceplate <i>Mortise cylinder not included</i>
10COMBOPLATEMOM	Jamb push plate combined with momentary keyswitch on a double gang faceplate <i>Mortise cylinder not included</i>
10JAMBSWITCHMOM	Momentary Keyswitch - Jamb style 1.75" × 4.75" × 0.50" <i>Mortise cylinder not included</i>
10JAMBSWITCHONF	Maintained Keyswitch - Jamb style 1.75" × 4.75" × 0.50" <i>Mortise cylinder not included</i>
10KEYSWITCHMOM	Momentary Keyswitch - Single gang 3.00" × 4.75" × 0.50" <i>Mortise cylinder not included</i>
10KEYSWITCHONF	Maintained Keyswitch - Single gang 3.00" × 4.75" × 0.50" <i>Mortise cylinder not included</i>
10CYLINDERKA	1.125" mortise cylinder, Schlage C Keyway, keyed alike
10CYLINDERKD	1.125" mortise cylinder, Schlage C Keyway, keyed differently
30.5200	ON / OFF Switch for 10KEYSWITCHONF and 10JAMBSWITCHONF
30.5201	Momentary Switch for 10KEYSWITCHMOM and 10JAMBSWITCHMOM

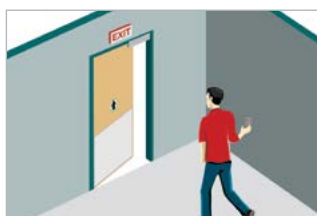


## PIEZO BUTTON

Heavy duty,  
piezoelectric push button

### FEATURES & BENEFITS

- User-adjustable output hold time of 1 to 40 seconds
- Can be configured to fail-safe or fail-secure
- Can be wired normally open or normally closed
- Fits standard, single gang mounting boxes
- LED illumination can be customized to user preference
- Vandal / tamper resistant design

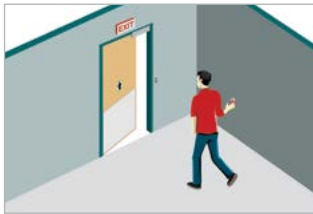


### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Piezoelectric
<b>Faceplate Dimensions</b>	Single Gang - 2.75" (W) × 4.5" (H)
<b>LED Configuration</b>	Illuminated Red / Green ring that signals activation, which can also be disabled
<b>Materials</b>	Stainless steel faceplate with tamper-resistant screws
<b>Switch Rating</b>	2 A @ 30 VDC, 500 mA @ 125 VAC
<b>Hold Time Range (adjustable)</b>	1 – 40 s
<b>Voltage Input</b>	12 – 24 VDC (auto-sensing)
<b>Relay</b>	DPDT
<b>Operating Temperature</b>	-40 – 160 °F
<b>Norm Conformance</b>	NEMA 4 / IP65

### PRODUCT SERIES

P/N	Description
<b>10PIEZO241</b>	Piezoelectric push button, single gang Push To Exit text
<b>10BOX24SGSM</b>	Standard single gang surface mount box (2.75" × 4.50")



## PNEUMATIC PUSH BUTTONS

Adjustable time delay  
security button

### FEATURES & BENEFITS

- Adjustable time delay of 2 to 60 seconds
- Listed UL 508 / CSA C22.2 No 14-10 with MET LABS, File #E113051
- Available in single and jamb size plates
- Buttons available in 1 5/8 inch (standard) or two inch (large) sizes
- Available in a variety of combinations of color, text and logo upon request
- Tested to perform more than one million operations

### TECHNICAL SPECIFICATIONS

<b>Technology</b>	Pneumatic
<b>Faceplate Dimensions</b>	
Single	2.75" (W) × 4.50" (H)
Jamb	1.75" (W) × 4.50" (H)
<b>Visual Style</b>	Red Button with Push to Exit Text Blue Button with Handicap Logo Green Button with Push to Exit Text
<b>Materials</b>	Stainless steel faceplate with colored, anodized aluminum button
<b>Switch Rating</b>	5 A @ 125 VAC
<b>Time Range</b>	2 – 60 s, adjustable
<b>Relative Timing Accuracy</b>	±5% @ 72 °F
<b>Contactors</b>	NO or NC
<b>Operating Temperature</b>	Rated for indoor use only -15 – 120 °F
<b>Product Life Test</b>	1 million operations

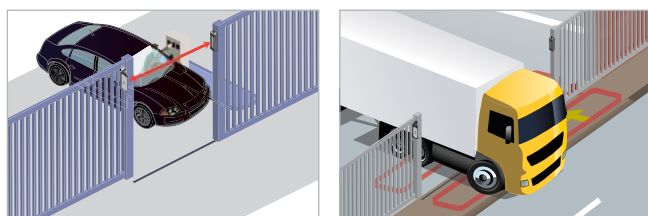
### MOUNTING OPTIONS

P/N	Description
<b>10BOXJAMBST</b>	Jamb surface mount box
<b>10BOX24SGSM</b>	Standard single gang surface mount box (2.75" × 4.50")

### PRODUCT SERIES

P/N	Description
<b>10ACPBDA1</b>	2" Jamb, Red button, text only
<b>10ACPBDA2</b>	2" Single, Red button, text only
<b>10ACPBDA3</b>	1 5/8" Jamb, Red button, text only
<b>10ACPBDA4</b>	1 5/8" Single, Red button, text only
<b>10ACPBDA5</b>	2" Jamb, Blue button, logo only
<b>10ACPBDA6</b>	2" Single, Blue button, logo only
<b>10ACPBDA7</b>	1 5/8" Jamb, Blue button, logo only
<b>10ACPBDA8</b>	1 5/8" Single, Blue button, logo only
<b>10ACPBDA9</b>	2" Jamb, Green button, Push to Exit text
<b>10ACPBDA10</b>	2" Single, Green button, Push to Exit text
<b>10ACPBDA11</b>	1 5/8" Jamb, Green button, Push to Exit text
<b>10ACPBDA12</b>	1 5/8" Single, Green button, Push to Exit text





## UL LISTED GATELOCKS

Weather resistant,  
electromagnetic lock

### FEATURES & BENEFITS

- Available in front or side mount with a 1200 lb holding force
- Front mount model comes with a ¾ inch male NPS threaded conduit fitting
- Built-in remote lock status sensor with an output relay
- Built-in surge protection
- Weather-resistant, stainless steel housing makes these locks suitable for outdoor applications

### TECHNICAL SPECIFICATIONS

#### 10GL1200R

<b>Door Configuration</b>	Sliding gate, front mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply recommended)
<b>Current Draw</b>	500 mA @ 12 VDC, 250 mA @ 24 VDC
<b>Relay Switch</b>	250 mA @ 12 VDC, 125 mA @ 24 VDC
<b>Dimensions</b>	8.75" (W) × 2.50" (H) × 1.625" (D)
<b>Material</b>	Stainless steel
<b>Sensor</b>	Lock status sensor with relay output
<b>Cable Specifications</b>	24 AWG 7-conductor cable, 3.5'
<b>Norm Conformance</b>	UL and CUL, ANSI 156.10, NEMA 4 / IP65
<b>Conduit Fitting (10GL1200R ONLY)</b>	¾" NPS conduit fitting 14 threads per inch

#### 10GL1200SR

<b>Door Configuration</b>	Swinging door / gate, side mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply recommended)
<b>Current Draw</b>	500 mA @ 12 VDC, 250 mA @ 24 VDC
<b>Relay Switch</b>	250 mA @ 12 VDC, 125 mA @ 24 VDC
<b>Dimensions</b>	8.75" (W) × 2.50" (H) × 1.625" (D)

### TECHNICAL SPECIFICATIONS CONT'D

<b>Material</b>	Stainless steel
<b>Sensor</b>	Lock status sensor with relay output
<b>Cable Specifications</b>	24 AWG 7-conductor cable, 9.5'
<b>Norm Conformance</b>	UL and CUL, ANSI 156.10, NEMA 4 / IP65

### PRODUCT SERIES

P/N	Description
<b>10GL1200R</b>	UL / ULC Listed, 12 / 24 VDC front mounted - 1200 lb
<b>10GL1200SR</b>	UL / ULC Listed, 12 / 24 VDC side mounted - 1200 lb
<b>10LZBRGATE1200</b>	(1) "L" Bracket (1) "Z" Bracket
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC
<b>10PS12-24D</b>	UL / ULC Listed, power supply 12 / 24 VDC with backup circuit (battery not included)

## UL LISTED MAGLOCKS

Electromagnetic locks with adjustable  
relock time delay and lock status sensor



### FEATURES & BENEFITS

- UL Listed
- Adjustable zero to 90 second relock time delay
- Lock status sensor with visible LED
- Lock status sensor offers either normally open (NO) or normally closed (NC) output configurations
- Input voltage of 12 / 24 VDC, must be used with UL Listed power supply
- Variety of mounting hardware available
- Available in access control packages with request-to-exit sensor, logic module, actuator, power supply and MAGLOCK

### TECHNICAL SPECIFICATIONS

#### 10MAGLOCK1UL

<b>Door Configuration</b>	Single, surface mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	0.50 A @ 12 VDC, 0.30 mA @ 24 VDC
<b>Dimensions</b>	10.47" (W) × 2.87" (H) × 1.58" (D)
<b>Material</b>	Anodized Aluminum housing
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor (NO or NC outputs)
<b>Output Relay</b>	Up to 1 A @ 24 VDC

#### 10MAGLOCK3UL

<b>Door Configuration</b>	Single, surface mount
<b>Holding Force</b>	600 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	0.50 A @ 12 VDC, 0.25 A @ 24 VDC
<b>Dimensions</b>	9.84" (W) × 1.65" (H) × 1.02" (D)
<b>Material</b>	Anodized Aluminum housing
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor (NO or NC outputs)
<b>Output Relay</b>	Up to 1 A @ 24 VDC

### TECHNICAL SPECIFICATIONS CONT'D

#### 10MAGLOCK5UL

<b>Door Configuration</b>	Double, surface mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	1 A @ 12 VDC, 0.60 A @ 24 VDC
<b>Dimensions</b>	20.94" (W) × 2.87" (H) × 1.58" (D)
<b>Material</b>	Anodized Aluminum housing
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor (NO or NC outputs)
<b>Output Relay</b>	Up to 1 A @ 24 VDC

#### 10MAGLOCK6UL

<b>Door Configuration</b>	Double, surface mount
<b>Holding Force</b>	600 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	1 A @ 12 VDC, 0.50 A @ 24 VDC
<b>Dimensions</b>	19.76" (W) × 1.65" (H) × 1.02" (D)
<b>Material</b>	Anodized Aluminum housing
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor (NO or NC outputs)
<b>Output Relay</b>	Up to 1 A @ 24 VDC

See page 80 for Product Series



## UL LISTED MAGLOCKS

Electromagnetic locks with adjustable  
relock time delay and lock status sensor

### PRODUCT SERIES

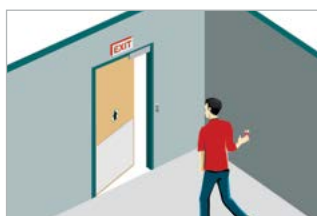
P/N	Description
<b>10MAGLOCK1UL</b>	Single 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) bond status relay 12 / 24 VDC
<b>10MAGLOCK3UL</b>	Single 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) bond status relay 12 / 24 VDC

### PRODUCT SERIES

P/N	Description
<b>10MAGLOCK5UL</b>	Double 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) bond status relays 12 / 24 VDC
<b>10MAGLOCK6UL</b>	Double 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) bond status relays 12 / 24 VDC

## UL LISTED MAGLOCKS WITH DS

Electromagnetic locks with adjustable  
relock time delay, lock status sensor  
and door status sensor



### FEATURES & BENEFITS

- UL Listed
- Adjustable zero to 90 second relock time delay
- Lock Status Sensor with visible LED
- Door Status Sensor
- Input voltage of 12 / 24 VDC, must be used with UL Listed power supply
- Variety of mounting hardware available
- Available in access control packages with sensor, logic module, actuator and MAGLOCK

### TECHNICAL SPECIFICATIONS

#### 10MAGLOCK1ULDS

<b>Door Configuration</b>	Single, surface mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	0.50 A @ 12 VDC, 0.30 mA @ 24 VDC
<b>Dimensions</b>	10.47" (W) × 2.87" (H) × 1.58" (D)
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor, Door Status Sensor
<b>Output Relay</b>	Up to 1 A @ 24 VDC

#### 10MAGLOCK3ULDS

<b>Door Configuration</b>	Single, surface mount
<b>Holding Force</b>	600 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	0.50 A @ 12 VDC, 0.25 A @ 24 VDC
<b>Dimensions</b>	9.84" (W) × 1.65" (H) × 1.02" (D)
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor, Door Status Sensor
<b>Output Relay</b>	Up to 1 A @ 24 VDC

### TECHNICAL SPECIFICATIONS CONT'D

#### 10MAGLOCK5ULDS

<b>Door Configuration</b>	Double, surface mount
<b>Holding Force</b>	1200 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	1 A @ 12 VDC, 0.60 mA @ 24 VDC
<b>Dimensions</b>	20.94" (W) × 2.87" (H) × 1.58" (D)
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor, Door Status Sensor
<b>Output Relay</b>	Up to 1 A @ 24 VDC

#### 10MAGLOCK6ULDS

<b>Door Configuration</b>	Double, surface mount
<b>Holding Force</b>	600 lb
<b>Input Voltage</b>	12 / 24 VDC (UL Listed power supply required)
<b>Current Draw</b>	1 A @ 12 VDC, 0.50 A @ 24 VDC
<b>Dimensions</b>	19.76" (W) × 1.65" (H) × 1.02" (D)
<b>Relock Time Delay</b>	0 – 90 s
<b>Sensor</b>	Lock Status Sensor, Door Status Sensor
<b>Output Relay</b>	Up to 1 A @ 24 VDC

See page [82](#) for Product Series



## UL LISTED MAGLOCKS WITH DS

Electromagnetic locks with adjustable  
relock time delay, lock status sensor  
and door status sensor

### PRODUCT SERIES

P/N	Description
<b>10MAGLOCK1ULDS</b>	Single 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relck), (1) Door status sensor 12 / 24 VDC
<b>10MAGLOCK3ULDS</b>	Single 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relck), (1) Door status sensor 12 / 24 VDC
<b>10MAGLOCK5ULDS</b>	Double 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relck), (2) Door status sensors 12 / 24 VDC
<b>10MAGLOCK6ULDS</b>	Double 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relck), (2) Door status sensors 12 / 24 VDC

### PRODUCT SERIES

P/N	Description
<b>50.0340</b>	Cover plate ONLY with DS Switch for the 10MAGLOCK1ULDS
<b>50.0341</b>	Cover plate ONLY with DS Switch for the 10MAGLOCK3ULDS
<b>50.0342</b>	Cover plate ONLY with DS Switch for the 10MAGLOCK5ULDS
<b>50.0343</b>	Cover plate ONLY with DS Switch for the 10MAGLOCK6ULDS

See page [101](#) for MAGLOCK Accessories  
See page [87](#) for Access Control packages



## UNIVERSAL KEYPAD FAMILY

Access control keypad for  
indoor and outdoor use

### FEATURES & BENEFITS

- Allows for up to 1010 user codes
- IP66 rating ensures the device will withstand the elements in harsh, industrial and outdoor environments
- Incorporates a tamper alarm feature as a standard option
- Two zone feature provides two relays and two exit button outputs for two zone applications
- Backlit numbers allow for ease of use in dimly-lit areas

### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	12 – 24 VAC / VDC (DO NOT EXCEED 30 VDC or 24 VAC)
<b>Standby Current</b>	≤ 30 mA
<b>Working Current</b>	≤ 160 mA
<b>Max User Codes</b>	1010 (zone 1: 1000 users, zone 2: 10 users)
<b>Relock Time</b>	0 – 99 s
<b>Output</b>	2 relays (free of potential change-over contact)
Max. Contact Current	1 A (resistive)
Max. Contact Voltage	42 VAC / VDC
Adjustable Hold Time	30 W (DC) / 48 VA (AC)
<b>Cable Length</b>	3'
<b>Operating Temperature</b>	-22 – 158 °F
<b>Operating Humidity</b>	0 – 95% (non-condensing)
<b>IP Rating</b>	IP66, waterproof, dust proof
<b>Dimensions</b>	
10KEYPADU	3.00" (W) × 4.70" (H) × 0.90" (D)
10KEYPADUSL	1.70" (W) × 5.90" (H) × 0.95" (D)
<b>Certifications</b>	CE, RoHS
<b>Backlight</b>	Blue keypad illumination

### PRODUCT SERIES

P/N	Description
<b>10KEYPADU</b>	UNIVERSAL KEYPAD for indoor and outdoor use
<b>10KEYPADUSL</b>	UNIVERSAL SLIM-LINE KEYPAD for indoor and outdoor use

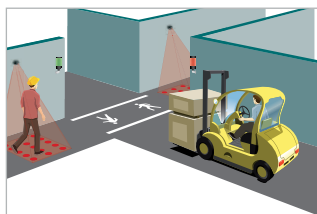
### MOUNTING OPTION

P/N	Description
<b>10ABOXSGSMS</b>	Single gang angled mounting box (2.75" × 4.50")



## LED SIGNAL LIGHTS, COLUMN

UL listed  
single color light



### FEATURES & BENEFITS

- UL Listed
- IP67 rating for maximum performance in harsh environments
- LED colors available include red, green and yellow
- 18 to 30 VDC supply voltage

### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	18 – 30 VDC
<b>Output</b>	
Off Response	10 ms
On Response	10 ms
<b>LED Colors</b>	Red, Green or Yellow
<b>Connector</b>	78", 4-wire integral cable
<b>Operating Temperature</b>	-40 – 122 °F 95% at 122 °F maximum relative humidity (non-condensing)
<b>Degree of Protection</b>	IP67
<b>Norm Conformance</b>	CE, UL 1598 Listed, UL 8750 Listed

### PRODUCT SERIES

P/N	Description
<b>10LIGHTC-G</b>	Green LED column light for signaling applications
<b>10LIGHTC-Y</b>	Yellow LED column light for signaling applications
<b>10LIGHTC-R</b>	Red LED column light for signaling applications
<b>10LIGHTBRACKET</b>	LED signal light bracket
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC - 1.75 A

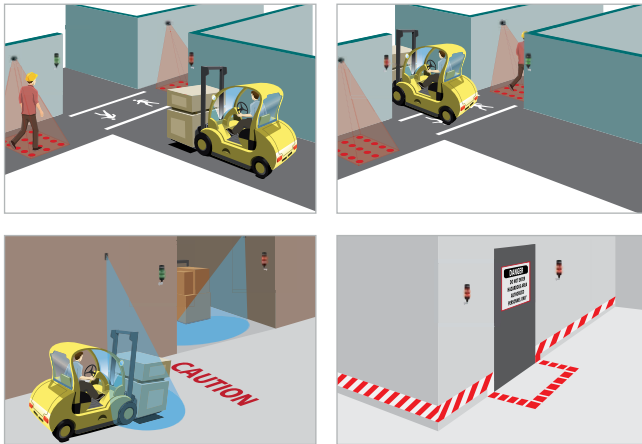


## LED SIGNAL LIGHTS, MODULAR

UL listed build-your-own  
lights and audible alarm

### FEATURES & BENEFITS

- UL Listed
- NEMA 4 / IP65
- Light units can be programmed to pulse at a rate of 1.5 or three times per second or remain steady
- Optional audible alarm unit offers secondary alert method with chirp, siren, continuous and 1.5 beeps-per-second configuration settings
- Base unit and bracket are designed for a variety of installations
- BEA can create custom integrations for any safety, automation or flow management application



### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	12 – 30 VDC
<b>Indicator Response Time</b>	
Off Response	150 $\mu$ s @ 12 – 30 VDC
On Response	180 mSec @ 12 VDC; 50 mSec @ 30 VDC
<b>LED Colors</b>	Red, Green, Yellow
<b>Light Flash Rates</b>	1.5 Hz $\pm$ 10% and 3 Hz $\pm$ 10%
<b>Audible Alarm</b>	2.6 KHz $\pm$ 250 Hz oscillation frequency; maximum intensity 92 dB @ 39.6"
<b>Audible Adjustment</b>	Rotate the alarm cover; Open to closed is 8 dB
<b>Connector</b>	78", 8-wire integral cable
<b>Operating Temperature</b>	-40 – 122 °F 95% @ 122 °F maximum relative humidity (non-condensing)
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Norm Conformance</b>	CE, UL 1598 Listed and UL 8750 Listed
<b>Dimensions</b>	
Base	2.75" ( $\phi$ ) $\times$ 1.38" (H)
Light Segment	2.75" ( $\phi$ ) $\times$ 2.38" (H)
Audible Segment	2.75" ( $\phi$ ) $\times$ 2.75" (H)

### PRODUCT SERIES

P/N	Description
<b>10LIGHT-TBASE</b>	Modular LED signal base
<b>10LIGHT-TR</b>	Modular LED signal light segment - red
<b>10LIGHT-TG</b>	Modular LED signal light segment - green
<b>10LIGHT-TW</b>	Modular LED signal light segment - white
<b>10LIGHT-TY</b>	Modular LED signal light segment - yellow
<b>10LIGHT-A</b>	Modular LED signal audible segment
<b>10LIGHTBRACK-ET-TL70</b>	LED signal light bracket
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC

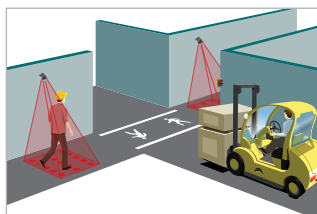


## LED SIGNAL LIGHTS, TRAFFIC

Rugged, cost-effective signals  
for warning indication systems

### FEATURES & BENEFITS

- Single light model rated IP67; double light model rated IP65
- Preamsembled indicators for signaling and traffic control
- Intense levels of light output for outdoor applications
- Controlled field of view for signage and narrow lane use
- Rugged, cost-effective and easy-to-install
- One and two indicator models available

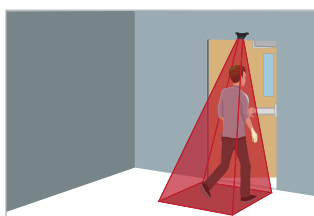
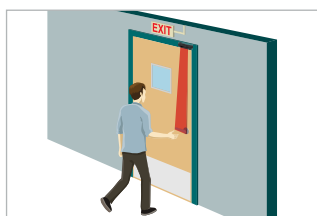


### TECHNICAL SPECIFICATIONS

<b>Supply Voltage</b>	15 – 30 VDC
<b>Indicators</b>	
Off Response	10 ms max.
On Response	10 ms max.
<b>LED Colors</b>	
One Indicator	Red <b>or</b> Green
Two Indicator	Red <b>and</b> Green
<b>Connections</b>	Field-wired
<b>Operating Temperature</b>	–40 – 122 °F
<b>Material</b>	Polycarbonate
<b>Degree of Protection</b>	
Single	IP67
Double	IP65
<b>Norm Conformance</b>	CE

### PRODUCT SERIES

P/N	Description
<b>10LIGHTS-G</b>	Traffic LED signal light - Green
<b>10LIGHTS-R</b>	Traffic LED signal light - Red
<b>10LIGHTD-RG</b>	Traffic LED signal light - Red & Green
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC



## ACCESS CONTROL PACKAGES

Single door  
application packages

### FEATURES & BENEFITS

- Packages for request-to-exit applications
- Package includes your choice of request-to-exit sensors, 600 or 1200 lb MAGLOCK, coupled with door logic and power
- Illuminated BEA ACCESS CONTROL PUSH BUTTON included

### PRODUCT SERIES

P/N	Description
<b>10ACP6</b>	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
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK3UL - 600 lb UL Listed Maglock - pg <a href="#">79-80</a>
	(1) 10R2E100 - Request-to-Exit sensor - pg <a href="#">35</a>
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
<b>10ACP6F</b>	Single Door Package 4 utilizes our FLY with adjustable passive infrared presence detection pattern for secure request-to-exit and a 600 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK3UL - 600 lb UL Listed Maglock - pg <a href="#">79-80</a>
	(1) 10FLYKITB - Request-to-Exit sensor - pg <a href="#">18</a>
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3 relay logic module - pg <a href="#">51</a>

### PRODUCT SERIES CONT'D

P/N	Description
<b>10ACP12</b>	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
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK1UL - 1200 lb UL Listed Maglock - pg <a href="#">79-80</a>
	(1) 10R2E100 - Request-to-Exit sensor - pg <a href="#">35</a>
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
<b>10ACP12F</b>	Single Door Package 2 utilizes our FLY with adjustable passive infrared presence detection pattern for secure request-to-exit and a 1200 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK1UL - 1200 lb UL Listed Maglock - pg <a href="#">79-80</a>
	(1) 10FLYKITB - Request-to-Exit sensor - pg <a href="#">18</a>
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3 relay logic module - pg <a href="#">51</a>



## LOW ENERGY REACTIVATION PACKAGES

All-in-one reactivation packages  
for low energy doors



### FEATURES & BENEFITS

- Convenient solution that includes secondary reactivation and enhanced door logic
- LE21 or BR3-X logic disables SUPERSCAN-T until the door is activated by a knowing act device
- Door position switch monitors state of door to enable / disable sensors

### PRODUCT SERIES

P/N	Description
LE PACKAGE	(1) 10SSTII (Length) - SUPERSCAN-T II - pg <a href="#">36</a> , <a href="#">38</a> Door mounted safety sensor - 1 Master, 1 Slave 34.5" end cap to end cap (for 36" doors)
	(1) 10LE21 - pg <a href="#">52</a> Low energy module
	(1) 10SWITCH75 Magnetic door position switch 0.50" gap, NO / NC, SPDT, 0.44" diameter, flush mount

### PRODUCT SERIES CONT'D

P/N	Description
LE PACKAGE 6	(1) 10SSTII (Length) - SUPERSCAN-T II - pg <a href="#">36</a> , <a href="#">38</a> Door mounted safety sensor - 1 Master, 1 Slave 34.5" end cap to end cap (for 36" doors)
	(1) 10BR3-X - pg <a href="#">51</a> Programmable 3 relay logic module
	(1) 10SWITCH75 Magnetic door position switch 0.50" gap, NO / NC, SPDT, 0.44" diameter, flush mount
LE PACKAGE 6 SECURITY	(1) 10SSTII (Length) - SUPERSCAN-T II - pg <a href="#">36</a> , <a href="#">38</a> Door mounted safety sensor - 1 Master, 1 Slave 34.5" end cap to end cap (for 36" doors)
	(1) 10BR3-X - pg <a href="#">51</a> Programmable 3 relay logic module
	(1) 10SWITCH75 Magnetic door position switch 0.50" gap, NO / NC, SPDT, 0.44" diameter, flush mount



## PUSH PLATE PACKAGES

All-in-one package containing push plates, wireless transmitters / receivers and mounting options

### FEATURES & BENEFITS

- Flexible solution offering variety of push plate, mounting and wireless options
- Convenient, one-box solutions available

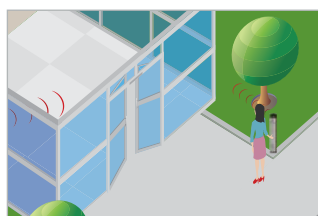
### PRODUCT SERIES

P/N	Description
<b>PANTHER 1</b>	(1) PANTHER PLATE, any style - pg <a href="#">64</a> (1) 10RD433 or 10RD433EH receiver - pg <a href="#">56</a> or 10RD900 receiver - pg <a href="#">57</a>
<b>PANTHER 2</b>	(2) PANTHER PLATE, any style - pg <a href="#">64</a> (1) 10RD433 or 10RD433EH receiver - pg <a href="#">56</a> or 10RD900 receiver - pg <a href="#">57</a>
<b>PUSH PLATE 1</b>	Choice of (1) Push Plate - any style* - pg <a href="#">59-61</a> , <a href="#">65</a> (1) Matching Surface or Flush mounting box - pg <a href="#">97</a> (1) Receiver and (1) Transmitter - any frequency - pg <a href="#">55-57</a> <i>*does NOT include LPR36, JAMB, VESTIBULE, PANTHER or MAGIC SWITCH</i>
<b>PUSH PLATE 2</b>	Choice of (1) Push Plate - any style* - pg <a href="#">59-61</a> , <a href="#">65</a> (2) Matching Surface or Flush mounting boxes - pg <a href="#">95</a> (1) Receiver and (2) Transmitters - any frequency - pg <a href="#">55-57</a> <i>*does NOT include LPR36, JAMB, VESTIBULE, PANTHER or MAGIC SWITCH</i>
<b>PUSH PLATE 3</b>	Choice of (1) JAMB PUSH PLATE - any style - pg <a href="#">62</a> (1) Matching Surface mounting box - pg <a href="#">95</a> (1) Receiver and (1) Mini transmitter - any frequency - pg <a href="#">55-57</a>
<b>PUSH PLATE 4</b>	Choice of (2) JAMB PUSH PLATES - any style - pg <a href="#">62</a> (2) Matching Surface mounting boxes - pg <a href="#">95</a> (1) Receiver and (2) Mini transmitter - any frequency - pg <a href="#">55-57</a>
<b>PUSH PLATE 45 ONE BOX SOLUTION</b>	Choice of (2) 4.5 INCH SQUARE PUSH PLATES - any style - pg <a href="#">59</a> (2) 4.5" square surface mount boxes - pg <a href="#">95</a> (1) 433 receiver and (2) 3-volt or 9-volt 433 MHz transmitters - pg <a href="#">56</a>

### PRODUCT SERIES CONT'D

<b>PUSH PLATE 45 900 ONE BOX SOLUTION</b>	Choice of (2) 4.5 INCH SQUARE PUSH PLATES - any style - pg <a href="#">59</a> (2) 4.5" square surface mount boxes - pg <a href="#">95</a> (2) 10TD900PB transmitter and (1) 10RD900 receiver - pg <a href="#">57</a>
<b>VESTIBULE 900</b>	(1) 10PBDGP1 - VESTIBULE PUSH PLATE - pg <a href="#">66</a> (1) 4.75" square surface mounting box - pg <a href="#">95</a> (2) Push Plate options* with matching mounting boxes - pg <a href="#">59-61</a> , <a href="#">65</a> (4) 10TD900PB - 3-volt transmitters and (2) 10RD900 receivers - pg <a href="#">56</a> <i>*options include (2) PBS Series, (2) PBS45 Series, (2) PBS6 Series, (2) PBR45 Series, (2) PBR Series or (2) PBJ Series</i>
<b>VESTIBULE PACKAGE</b>	(1) 10PBDGP1 - VESTIBULE PUSH PLATE - pg <a href="#">66</a> (1) 4.75" square surface mounting box - pg <a href="#">95</a> (2) Push Plate options* with matching mounting boxes - pg <a href="#">59-61</a> , <a href="#">65</a> (4) 3-volt or 9-volt 433 transmitters and (2) 10RD433 or 10RD433EH receivers - pg <a href="#">56</a> <i>*options include (2) PBS Series, (2) PBS45 Series, (2) PBS6 Series, (2) PBR45 Series, (2) PBR Series or (2) PBJ Series</i>
<b>VESTIBULE PACKAGE 9V</b>	(1) 10PBDGP1 - VESTIBULE PUSH PLATE - pg <a href="#">66</a> (1) 4.75 inch square surface mounting box - pg <a href="#">95</a> (2) Push Plate options* with matching mounting boxes - pg <a href="#">59-61</a> , <a href="#">65</a> (4) 10TD433PB9V - 9-volt transmitters and (2) 10RD433 or 10RD433EH receivers - pg <a href="#">56</a> <i>*options include (2) PBS Series, (2) PBS45 Series, (2) PBS6 Series, (2) PBR45 Series, (2) PBR Series or (2) PBJ Series</i>





## PUSH PLATE PACKAGES (SECURITY & ACCESS SPECIFIC)

Convenient packages built with  
BEA's most popular push plates

### FEATURES & BENEFITS

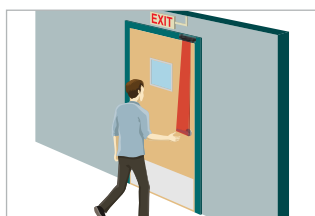
- Choose from these convenient one-box solutions that include our most popular mounting option, push plate artwork and wireless transmitters and receivers
- Packages available for vestibule and other common knowing act applications

### PRODUCT SERIES

P/N	Description
<b>PUSH PLATE 45S-433</b>	(2) 10PBS451 - square push plates - pg <a href="#">59</a> (2) 10BOX45SQSM - surface mount boxes (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg <a href="#">56</a>
<b>PUSH PLATE 45S-900</b>	(2) 10PBS451 - square push plates - pg <a href="#">59</a> (2) 10BOX45SQSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg <a href="#">56</a>
<b>PUSH PLATE 45S-BR2900</b>	(2) 10PBS451 - square push plates - pg <a href="#">59</a> (2) 10BOX45SQSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter - pg <a href="#">57</a> (1) 10BR2-900 - 2-relay logic module - pg <a href="#">50</a>
<b>PUSH PLATE 45S-HW</b>	(2) 10PBS451 - square push plates - pg <a href="#">59</a> (2) 10BOX45SQSM - surface mount boxes <b>HARDWIRED SOLUTION ONLY</b>
<b>PUSH PLATE 475 EBA-900</b>	(2) 10PBS1 - square push plates - pg <a href="#">60</a> (2) 10BOX475SQSMEBA - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg <a href="#">57</a>
<b>PUSH PLATE 475S-433</b>	(2) 10PBS1 - square push plates - pg <a href="#">60</a> (2) 10BOX475SQSM - surface mount boxes (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg <a href="#">56</a>
<b>PUSH PLATE 475S-900</b>	(2) 10PBS1 - square push plates - pg <a href="#">60</a> (2) 10BOX475SQSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg <a href="#">57</a>
<b>PUSH PLATE 475S-BR2900</b>	(2) 10PBS1 - square push plates - pg <a href="#">60</a> (2) 10BOX475SQSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter - pg <a href="#">57</a> (1) 10BR2-900 - 2-relay logic module - pg <a href="#">50</a>

### PRODUCT SERIES CONT'D

P/N	Description
<b>PUSH PLATE 475S-HW</b>	(2) 10PBS1 - square push plates - pg <a href="#">60</a> (2) 10BOX475SQSM - surface mount boxes <b>HARDWIRED SOLUTION ONLY</b>
<b>PUSH PLATE 6R-433</b>	(2) 10PBR1 - round push plates - pg <a href="#">61</a> (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg <a href="#">56</a>
<b>PUSH PLATE 6R-900</b>	(2) 10PBR1 - round push plates - pg <a href="#">61</a> (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg <a href="#">57</a>
<b>PUSH PLATE 6R-BR2900</b>	(2) 10PBR1 - round push plates - pg <a href="#">61</a> (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter - pg <a href="#">57</a> (1) 10BR2-900 - 2-relay logic module - pg <a href="#">50</a>
<b>PUSH PLATE JAMB-433</b>	(2) 10PB1 - jamb style push plates - pg <a href="#">62</a> (2) 10BOXJAMBSM - surface mount boxes - pg <a href="#">58</a> (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg <a href="#">56</a>
<b>PUSH PLATE JAMB-900</b>	(2) 10PB1 - jamb style push plates - pg <a href="#">62</a> (2) 10BOXJAMBSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg <a href="#">57</a>
<b>VESTIBULE PACKAGE 433</b>	(1) 10PBDGP1 - vestibule plate - pg <a href="#">66</a> (1) 10BOX475SQSM - surface mounting box (2) PBS1 with matching mounting boxes - pg <a href="#">60</a> (4) 10TD433PB9V - 9-volt 433 MHz transmitter (2) 10RD433 receivers - pg <a href="#">56</a>
<b>VESTIBULE PACKAGE 900</b>	(1) 10PBDGP1 - vestibule plate - pg <a href="#">66</a> (1) 10BOX475SQSM - surface mounting box (2) PBS1 with matching mounting boxes - pg <a href="#">60</a> (4) 10TD900PB - 900 MHz transmitters (2) 10RD900 receivers - pg <a href="#">57</a>



## REQUEST-TO-EXIT PACKAGES

Convenient door packages for request-to-exit applications

### FEATURES & BENEFITS

- Select your choice of UL Listed MAGLOCK WITH DS (available in either 600 or 1200 lb holding force) and your choice of BEA exit sensor (either R2E-100 or FLY KIT)
- Packages include BR3-X Logic Module, UL Listed Power Supply and illuminated BEA ACCESS CONTROL PUSH BUTTON
- Convenient packages offer superior pricing and whole-door solution

### PRODUCT SERIES

P/N	Description
<b>10ACP12DS</b>	(1) 10R2E100 - UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications - pg <a href="#">35</a>
	(1) 10PS12-24 - UL, filtered & regulated power supply
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3-relay logic module - pg <a href="#">51</a>
	(1) 10MAGLOCK1ULDS - 1200 lb UL listed maglock - pg <a href="#">81-82</a>
<b>10ACP6DS</b>	(1) 10R2E100 - UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications - pg <a href="#">34</a>
	(1) 10PS12-24 - UL, filtered & regulated power supply
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3-relay logic module - pg <a href="#">51</a>
	(1) 10MAGLOCK3ULDS - 600 lb UL listed maglock - pg <a href="#">81-82</a>

### PRODUCT SERIES CONT'D

P/N	Description
<b>10ACP12FDS</b>	(1) 10FLYKITB - Request-to-Exit sensor - pg <a href="#">18</a>
	(1) 10PS12-24 - UL, filtered & regulated power supply
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3-relay logic module - pg <a href="#">51</a>
	(1) 10MAGLOCK1ULDS - 1200 lb UL listed maglock - pg <a href="#">81-82</a>
<b>10ACP6FDS</b>	(1) 10FLYKITB - Request-to-Exit sensor - pg <a href="#">18</a>
	(1) 10PS12-24 - UL, filtered & regulated power supply
	(1) 10ACPBSS1 - Push-to-Exit button - pg <a href="#">71</a>
	(1) 10BR3-X - Programmable 3-relay logic module - pg <a href="#">51</a>
	(1) 10MAGLOCK3ULDS - 600 lb UL listed maglock - pg <a href="#">81-82</a>



## SINGLE OCCUPANCY RESTROOM EMERGENCY ADD-ON KIT

For single occupancy  
restrooms

### FEATURES & BENEFITS

- "ASSISTANCE REQUIRED" signal (LED + adjustable sounder) for outside signaling
- "PUSH FOR EMERGENCY ASSISTANCE" button + indicator (LED + selectable sounder) combined unit for ease of installation
- Double-sided French / English emergency signage
- Ontario Regulation 368 / 13 compliant

### TECHNICAL SPECIFICATIONS

#### 10ARS

<b>Lamp Voltage Rating</b>	28 VAC / VDC
<b>Sounder Voltage Rating</b>	16 – 25 VAC / VDC
<b>Sounder Current Rating</b>	15 mA
<b>Lamps</b>	Miniature bayonet type (#313)
<b>Mounting</b>	Fits standard single-gang
<b>Sounder &amp; Lamp Terminal</b>	2 pigtail wires (each)
<b>Material</b>	Stainless Steel & PC
<b>Dimensions</b>	
Single Gang Faceplate	2.75" (W) x 4.50" (H)
White Lens (B-31695)	2.25" (W) x 4.00" (H) x 3.125" (D)

#### 10EBUTTONCOMBO

<b>Voltage</b>	12 – 24 VAC / VDC $\pm 10\%$
<b>Indication</b>	Audible buzzer (selectable on / off) and visual LED
<b>Text Inserts</b>	10
<b>Button</b>	E-stop button Push On / Pull Off
<b>Material</b>	Stainless Steel & Polycarbonate
<b>Accessory</b>	Rubber weather gasket included
<b>Certifications</b>	FCC
<b>Dimensions</b>	4.50" (W) x 4.50" (H)

### TECHNICAL SPECIFICATIONS CONT'D

#### 70.5675

<b>Material</b>	Polystyrene
<b>Dimensions</b>	12.0" (W) x 5.5" (H)
<b>Language</b>	Double-sided French / English

### PRODUCT SERIES

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

# SINGLE OCCUPANCY RESTROOM RESTROOM KIT

For single occupancy  
normally locked / unlocked restrooms



## FEATURES & BENEFITS

- BR3-X, 13 function advanced logic module, controls locking and sequencing functionality
- Occupied Indicator with LED and selectable sounder signals when restroom is in use
- Push to Lock Button with LED provides a visual confirmation of lock status upon successful locking
- Door position switch ensures proper positioning of the door before resetting the system
- Ontario Regulation 368 / 13 compliant
- WET output with AC / DC voltage for powering an electric locking device directly from the BR3-X module

## TECHNICAL SPECIFICATIONS

### BR3-X

SEE Page [51](#)

### 10LEDSOUNDER

Voltage	12 – 24 VAC / VDC $\pm 10\%$
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	2.76" (W) $\times$ 4.52" (H) $\times$ 0.75" (D)
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## TECHNICAL SPECIFICATIONS CONT'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 Close
Gap Distance Max.	2"

See page [94](#) for Product Series



## SINGLE OCCUPANCY RESTROOM RESTROOM KIT

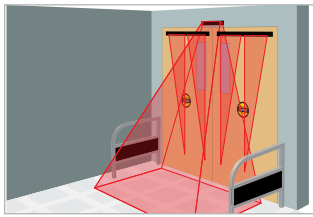
For single occupancy  
normally locked / unlocked restrooms

### PRODUCT SERIES

P/N	Description
<b>10RESTROOMKIT</b>	RESTROOM KIT includes: (1) 10PTLBUTTON, (1) 10LEDSOUNDER, (1) 10SWITCH1084 and (1) 10BR3X
<b>10BR3X</b>	3-relay logic module
<b>10LEDSOUNDER</b>	Occupied indicator
<b>10PTLBUTTON</b>	"Push to Lock" button
<b>10EMERGENCYKIT</b>	EMERGENCY ADD-ON KIT includes: (1) 70.5675, (1) 10EBUTTONCOMBO and (1) 10ARS
<b>10MAGLOCK1UL</b>	1200 lb, single
<b>10MAGLOCK3UL</b>	600 lb, single

### PRODUCT SERIES CONT'D

P/N	Description
<b>10STRIKECU</b>	UNIVERSAL CYLINDRICAL electric strike
<b>10STRIKERE</b>	RIM EXIT electric strike
<b>10SWITCH1084</b>	Door position switch
<b>10PS12-24</b>	UL / ULC listed 12 / 24 VDC Power Supply
<b>1012VAC</b>	12 VAC (20 VA) transformer
<b>1024VAC</b>	24 VAC (40 VA) transformer



## SWING DOOR PACKAGES

All-in-one activation and safety packages for swing doors

### FEATURES & BENEFITS

- Activation and safety packages for swing doors
- Overhead motion detection with BEA's EAGLE
- Overhead presence detection with BEA's BODYGUARD-T (extension bracket included)
- Door mounted presence detection with BEA's SUPERSCAN-T
- Lock out module (sold separately) to inhibit header mounted safety sensor (BODYGUARD-T) while door is closing

### PRODUCT SERIES

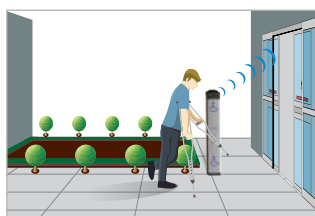
P/N	Description
PARALLAX I	(1) 10EAGLE - Overhead activation sensor - pg <a href="#">11</a>
	(1) 10BODYGUARDT - Header mounted safety sensor - pg <a href="#">17</a>
	(2) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg <a href="#">36</a> , <a href="#">38</a>
	(1) 10BODYMNT - Spacer for BODYGUARD-T
	(1) 10SSQD - Quick Disconnect for SUPERSCAN-T
PARALLAX II	(1) 1024VAC - Power Supply
	(1) 10EAGLE - Overhead activation sensor - pg <a href="#">11</a>
	(1) 10BODYGUARDT - Header mounted safety sensor - pg <a href="#">17</a>
	(4) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg <a href="#">36</a> , <a href="#">38</a>
	(1) 10BODYMNT - Spacer for BODYGUARD-T
	(2) 10SSQD - Quick Disconnect for SUPERSCAN-T
	(1) 1024VAC - Power Supply

### PRODUCT SERIES CONT'D

P/N	Description
PARALLAX DE	(2) 10EAGLE - Overhead activation sensor - pg <a href="#">11</a>
	(2) 10BODYGUARDT - Header mounted safety sensor - pg <a href="#">17</a>
	(4) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg <a href="#">36</a> , <a href="#">38</a>
	(2) 10BODYMNT - Spacer for BODYGUARD-T
	(2) 10SSQD - Quick Disconnect for SUPERSCAN-T
PARALLAX II DE LITE	(1) 1024VAC - Power Supply
	(2) 10EAGLE - Overhead activation sensor - pg <a href="#">11</a>
	(2) 10BODYGUARDT - Header mounted safety sensor - pg <a href="#">17</a>
	(2) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg <a href="#">36</a> , <a href="#">38</a>
	(2) 10BODYMNT - Spacer for BODYGUARD-T
	(2) 10SSQD - Quick Disconnect for SUPERSCAN-T
	(1) 1024VAC - Power Supply

NOTE: Lock-Out Modules are sold separately - page [52](#)





## BOLLARDS

### Push Plate Accessories

#### COMPATIBLE WITH

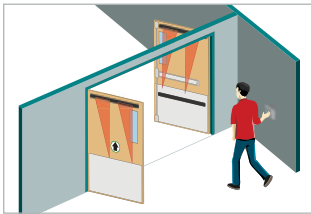
- LPR36 - 36 inch full-length actuator (pg [63](#))
- PANTHER plates - 4.75 inch square (pg [64](#))
- VESTIBULE plates (pg [66](#))
- 4.5 INCH ROUND plates (pg [59](#))
- 4.5 INCH SQUARE plates (pg [59](#))
- 4.75 INCH SQUARE plates (pg [60](#))

#### TECHNICAL SPECIFICATIONS

<b>Dimensions (with cap attached)</b>	6.25" (W) x 41.5" (H) x 4.25" (D)
<b>Material</b>	Powder-Coated (Inside and Out) Carbon Steel UV-Resistant ABS Plastic Stainless Steel
<b>Post</b>	
<b>Cap</b>	
<b>Bracket</b>	
<b>Push Plate Options</b>	4.5" Square, 4.75" Square, 4.75" Square Panther, 4.5" Round, Dual Vestibule and LPR36 High-low actuator
<b>Weight</b>	35 lbs (16 kg)
<b>Color</b>	Black, Bronze, Silver
<b>Hardware Included</b>	Screws (4) Screws (3) and Finishing Washers (3) Expansion Anchors (4), Lock Washers (4) and Nuts (4)
<b>Post</b>	
<b>Cap</b>	
<b>Bracket</b>	

#### PRODUCT SERIES

P/N	Description
<b>10BOLLARDBLK</b>	Mounting post for stainless steel push plates-Black
<b>10BOLLARDSLV</b>	Mounting post for stainless steel push plates-Silver
<b>10BOLLARDBRZ</b>	Mounting post for stainless steel push plates-Bronze
<b>10BOLLARDBLKWOH</b>	Mounting post without precut mounting holes-Black
<b>10BOLLARDSLVWOH</b>	Mounting post without precut mounting holes-White
<b>10BOLLARDBRZWOH</b>	Mounting post without precut mounting holes-Bronze
<b>50.0073</b>	Plastic transmitter shelf for BOLLARD
<b>50.5320</b>	BOLLARD hardware pack includes: Larger compression bolts, undercut screws and washers
<b>70.0195</b>	BOLLARD cap
<b>70.5022</b>	U-shaped BOLLARD mounting bracket (bracket only), larger screw holes



## BOXES AND BRACKETS

### Push Plate Accessories

#### COMPATIBLE WITH

- JAMB plates (pg 62)
- SINGLE GANG plates (pg 65)
- VESTIBULE plates (pg 66)
- 4.5 INCH ROUND plates (pg 59)
- 4.5 INCH SQUARE plates (pg 59)
- 4.75 INCH SQUARE plates (pg 60)
- 6 INCH ROUND plates (pg 61)
- 6 INCH SQUARE plates (pg 61)

#### PRODUCT SERIES

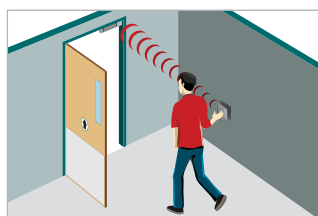
P/N	Description
<b>10BOXDGSM</b>	Standard double gang surface mount box (4.5" x 4.5")
<b>10BOXDG4H</b>	Plastic mount box (4" x 4" x 0.5")
<b>10BOX24SGSM</b>	Standard single gang surface mount box (2.75" x 4.5")
<b>10BOX45SQFM</b>	PBS45 series flush mount box (4.5" square)
<b>10BOX45SQSM</b>	PBS45 series surface mount box (4.5" square)
<b>10BOX45RNDFM</b>	PBR45 series flush mount box (4.5" round)
<b>10BOX45RNDSM</b>	PBR45 series surface mount box (4.5" round)
<b>10BOX475SQFM</b>	PBS series flush mount box (4.75" square)
<b>10BOX475SQSM</b>	PBS series surface mount box (4.75" square)
<b>10BOX6SQFM</b>	PBS6 series flush mount box (6" square)
<b>10BOX6SQSM</b>	PBS6 series surface mount box (6" square)
<b>10BOX6RNDFM</b>	PBR series flush mount box (6" round)
<b>10BOX6RNDSM</b>	PBR series surface mount box (6" round)
<b>10BOXJAMBFM</b>	PBJ / PBJM series flush mount box (1.5" x 4.75" jamb)

#### PRODUCT SERIES CONT'D

P/N	Description
<b>10BOXJAMBSM</b>	PBJ / PBJM series surface mount box (1.5" x 4.75" jamb)
<b>10BOXJAMBST</b>	PBJMS series surface mount box; hard wired only (1.75" x 4.5" jamb)
<b>10ESCUTCHEON</b>	PBR series stainless steel surface mount box; commonly used in hospital applications (6" round)
<b>10ESCUTCHEON45</b>	PBR45 series stainless steel surface mount box; commonly used in hospital applications (4.5" round)

#### MOUNTING ADAPTERS

P/N	Description
<b>10PBBRACKET</b>	PBR / PBS series surface mount kit (6" round and 4.75" square)
<b>10PBBRACKETCA</b>	PBR / PBS series surface mount kit - clear anodized (6" round and 4.75" square)
<b>10BRINGC</b>	Back plate required for double gang electrical boxes
<b>10WRSQ475</b>	PBS series weather ring (4.75" square)
<b>10WRRND45</b>	PBR45 series weather ring (4.5" round)
<b>10WRRND6</b>	PBR series weather ring (6" round)
<b>50.5016</b>	PBDGP series adapter ring (included with PBDGP1 Vestibule Plate)



## MOUNTING BOX EBA

Mounting box with  
easy battery access

### FEATURES & BENEFITS

- Unique two-piece design:
  1. Ensures easy installation
  2. Allows for quick battery replacement compared to standard mounting boxes
  3. Eliminates the need to disassemble the push plate from the box
  4. Improves wireless transmitter accessibility compared to small change-out compartments
- Locking screw secures box to mounting plate
- Designed for BEA's most popular push plate size

### TECHNICAL SPECIFICATIONS

**Dimensions** 5.41" (W) × 5.41" (H) × 1.97" (D)

#### Material

Box ABS Plastic  
Locking Screw Stainless Steel

### PRODUCT SERIES

P/N	Description
<b>10BOX475SQSMEBA</b>	Mounting box with easy battery access
<b>10PBS</b>	4.75" square "Push To Open" text only
<b>10PBS1</b>	4.75" square "Push To Open" text and handicap logo
<b>10PBSLL</b>	4.75" square handicap logo only
<b>10PBS10</b>	4.75" square plain face
<b>10PBSE</b>	4.75" square "Push To Exit" text only
<b>10PBS1B</b>	4.75" square white on blue "Push To Open" text and handicap logo
<b>10PBS1SB</b>	4.75" square blue on satin brass "Push To Open" text and handicap logo
<b>10PBS1BB</b>	4.75" square blue on bright brass "Push To Open" text and handicap logo
<b>10TD900PB</b>	Hardwired transmitter
<b>10TD433PB3V</b>	One button, 3-volt wired transmitter
<b>10TD433PB9V</b>	One button, 9-volt wired transmitter
<b>10PBBRACKET</b>	Surface mount kit
<b>10PBBRACKETCA</b>	Surface mount kit, clear anodized
<b>10WRSQ475</b>	PBS series weather ring



**10DOORSWITCH**



**10DPG50**



**10RELXXX**



**10REMOTE**



**10SPOTFINDER**



**10SWITCH75**



**10SWITCH1076**



**10SWITCH1084**



**10SWITCH1277**



**30.5580**



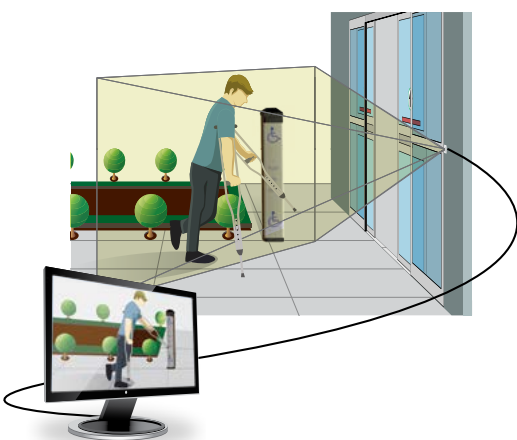
**50.5283**

## INSTALLATION ACCESSORIES

BEA's line of  
supplemental door accessories

### PRODUCT SERIES

P/N	Description
<b>10DOORSWITCH</b>	On / Off / Hold Open Switch
<b>10DPG50</b>	Door pressure gauge, 50 lbs
<b>10REL12VAC</b>	DPDT isolation relay 12 VAC only
<b>10REL12VDC</b>	DPDT isolation relay 12 VDC only
<b>10REL24V</b>	DPDT isolation relay 24 VAC only
<b>10REL24VDC</b>	DPDT isolation relay 24 VDC only
<b>10REMOTE</b>	UNIVERSAL REMOTE CONTROL
<b>10SPOTFINDER</b>	Improved active infrared SPOTFINDER that increases accuracy thereby reducing installation and maintenance time
<b>10SWITCH75</b>	Magnetic door position switch 0.75" gap, NO / NC, SPDT, 0.44" diameter, flush mount
<b>10SWITCH1076</b>	Magnetic door position switch 0.75 to 2" gap, NO / NC, SPDT, 0.75" diameter, flush mount
<b>10SWITCH1084</b>	Magnetic door position switch 2" gap, NO, SPDT, surface mount with terminal strip
<b>10SWITCH1277</b>	Magnetic door position switch 0.50" gap, NO / NC, SPDT, 0.375" diameter, flush mount
<b>30.5580</b>	Magnetic door position switch 0.75" gap, NO, SPST, 0.375" diameter, flush mount
<b>50.5283</b>	Magnetic door position switch 0.75" gap, NO, SPST, flush mount



## JAMB CAM

Jamb mounted  
color video camera

### FEATURES & BENEFITS

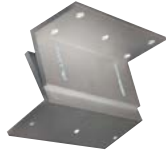
- Full color and enhanced definition color video with resolution of 480 × 720 (480p)
- Standard RCA video output
- Wide angle lens for complete view of door and traffic flow
- Integrated voltage regulator for installation convenience
- Low profile design minimizes accidental damage from shopping carts and other errant objects
- Reversible left and right mounting for application flexibility

### TECHNICAL SPECIFICATIONS

Supply Voltage	6.6 – 36 VDC; ±10% 6.0 – 28 VAC; ±10%
Operating Temperature	-22 – 140 °F (RH 95% max) (-30 – 60 °C)
Video Output	1.0 (Vp-p) / 75Ω
Image Sensor	CMOS
Horizontal Resolution	480 TVL
NTSC Output	480 (H) × 720 (W)
Sync System	Inter-Sync
Frame Rate	30 fps
Minimum Illumination	0.01 LUX
AE Control	Auto
Gain Control	Auto
Electronic Shutter	1 ~ 1/10,000 s
S / N Ratio	> 50 dB
AWB	Auto
Dimensions	1.75" (W) × 3.0" (H) × 0.75" (D)

### PRODUCT SERIES

P/N	Description
10JAMBCAM	Jamb mounted color video camera
10IXIODT1V	IXIO-DT1 with integrated video
20.5308C	Camera harness and power supply <b>CAN ONLY BE USED WITH IXIODT1V - pg 45</b>



10LZBRMAG1UL



10LZBRMAG3UL



10UBRACKETUL



10FILLER12UL



10SPACER3UL



10RIMHOUSING1UL

## MAGLOCK ACCESSORIES

Brackets, filler plates and spacers for BEA MAGLOCKS

### FEATURES & BENEFITS

- L & Z brackets for use on in-swinging doors allowing for precision adjustments
- U brackets provide necessary hardware for mounting MAGLOCK armature to a solid glass door up to a ½ inch thick
- Vertical spacer allows the MAGLOCK to be moved vertically on the door frame
- Armature housings increase overall reliability of the installation while providing an aesthetically pleasing mounting option
- Filler bars are used to accommodate different door frame sizes and configurations while extending a flat mounting surface for the MAGLOCK

### PRODUCT SERIES

P/N	Description
10LZBRMAG1UL	(1) "L" bracket, (1) "Z" bracket for single 1200 lb MAGLOCKS
10LZBRMAG3UL	(1) "L" bracket, (1) "Z" bracket for single 600 lb MAGLOCKS
MAG5LZUL	(2) "L" brackets, (2) "Z" brackets for double 1200 lb MAGLOCKS
MAG6LZUL	(2) "L" brackets, (2) "Z" brackets for double 600 lb MAGLOCKS
10UBRACKETUL	Bracket kit for mounting a maglock to a glass door up to 0.50" thick
10FILLER12UL	0.50" × 1.25" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER14UL	0.25" × 1.25" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER34UL	0.75" × 1.25" horizontal right filler plate used to fill or extend door stops for single locks only

### PRODUCT SERIES CONT'D

P/N	Description
10FILLER58UL	0.0625" × 0.0625" 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
10RIMHOUSING3UL	Provides a more aesthetically pleasing look over standard armature plates for single 600 lb MAGLOCKS
10SPACER1UL	Vertical "spacer bracket" used when the stop requires the maglock to be lowered for single 1200 lb MAGLOCKS
10SPACER3UL	Vertical "spacer bracket" used when the stop requires the maglock to be lowered for single 600 lb MAGLOCKS
50.0334	Screw pack for 10MAGLOCK1UL
50.0335	Screw pack for 10MAGLOCK3UL



# POWER SUPPLIES AND TRANSFORMERS



10PS12-24



10PSMDR2024



10PSVR5T



1012VAC



1024VAC



1024VACGRAINGER

## FEATURES & BENEFITS

- Can be used with select BEA products that require additional power

## 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 amp	1.75 amp
Max. Alarm Load DC	1.75 amp	1.75 amp
Battery (optional)	12 VDC	24 VDC

#### Output (Stand-by)

VDC	12 VDC / 7 AH	12 VDC / 7 AH
	Battery	Battery

4 Hr. of Stand-by & 5 Minutes of Alarm      Stand-by = 1.25 amp Alarm = 1.25 amp

#### Input

115 VAC / 60 Hz, 0.6 amp  
Fire Alarm Panel or Access Control trigger input

#### Supervision

AC fail supervision (form "C" contacts)  
AC input and DC output LED indicators  
Short circuit and thermal overload protection  
Unit includes: power supply, transformer and enclosure

#### Visual Indicators

AC input and DC output LED indicators

#### Enclosure Dimensions

7.5" (W) × 8.5" (H) × 3.5" (D)

#### Norm Conformance

UL Listed (UL294), CUL 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)

## TECHNICAL SPECIFICATIONS CONT'D

### 10PS12-24D

#### Battery Backup

Maximum charge current: 400mA.  
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 amp	1.75 amp
Max. Alarm Load DC	1.75 amp	1.75 amp
Battery (optional)	12 VDC	24 VDC

#### Output (Stand-by)

VDC	12 VDC / 7 AH	12 VDC / 7 AH
	Battery	Battery

4 Hr. of Stand-by & 5 Minutes of Alarm  
**Battery not included**

Stand-by = 1.25 amp      Stand-by = 1.25 amp

#### Output

Selectable 12 VDC or 24 VDC power limited outputs  
Class 2 Rated power limited outputs.  
1.75 amp continuous supply current @ 12 VDC or 24 VDC  
Filtered and electronically regulated output  
Short circuit and thermal overload protection

#### Input

Input 115 VAC / 60 Hz, 0.6 amp

#### Supervision

AC fail supervision (form "C" contacts)  
Dry trigger output (form "C" contacts)

#### Fire Alarm Interface

Dry trigger input

## POWER SUPPLIES AND TRANSFORMERS (CONTINUED)

### TECHNICAL SPECIFICATIONS CONT'D

#### 10PS12-24D CONT'D

<b>Visual Indicators</b>	AC input and DC output LED indicators
<b>Enclosure Dimensions</b>	13.5" (W) × 13" (H) × 3.25" (D)
<b>Norm Conformance</b>	UL Listed for Access Control Systems (UL294), CUL Listed - CSA Standard C22.2

#### 10PSVR5T

<b>Input</b>	24 VAC or 24 VDC
<b>Output</b>	5 VDC (VR1TM5) or 12 VDC output. Filtered and electronically regulated output. Built-in overload protection
<b>Visual Indicators</b>	Power LED indicator
<b>Features</b>	Modular connector/cable assembly facilitates ease of wiring Compact design allows for integration in a wide range of camera housings
<b>Enclosure Dimensions</b>	
VR5T / VR5BT	3.375" (W) × 1.125" (H) × 2.5" (D)
All Other Units	1.625" (W) × 1.0" (H) × 2.375" (D)
<b>Degree of Protection</b>	CE European Conformity

#### 10PSMDR2024

<b>Input</b>	
Voltage Range	85 – 264 VAC, 120 – 370 VDC
Frequency Range	47 – 63 Hz
<b>Output</b>	
DC Voltage	24 V
Rated Current	1A
Rated Power	24 W
<b>Enclosure Dimensions</b>	0.89" (W) × 3.54" (H) × 3.94" (D)

### PRODUCT SERIES

P/N	Description
<b>10PS12-24</b>	UL / ULC listed power supply 12 / 24 VDC - 1.75 A
<b>10PS12-24D</b>	UL / ULC listed power supply 12 / 24 VDC with backup circuit 1.75 A (battery not included)
<b>10PSMDR2024</b>	100 – 240 VAC, 24 VDC Power Supply
<b>10PSVR5T</b>	24 VAC or 24 VDC
<b>1012VAC</b>	12 VAC (20 VA) transformer with mounting feet <i>Not used for UL / ULC listed MAGLOCKS</i>
<b>1024VAC</b>	24 VAC (40 VA) transformer with mounting feet <i>Not used for UL / ULC listed MAGLOCKS</i>
<b>1024VACGRAINGER</b>	24 VAC (40 VA) Class I transformer with mounting bracket <i>Not used for UL / ULC listed MAGLOCKS</i>

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