



BEA AMERICAS

BEAsensors.com



CREATING A
CONVENIENT, SAFE,
AUTOMATED WORLD



INTRODUCING



LZR[®]-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 building with a large, three-dimensional 'BEA' logo mounted on the upper part of the facade. The building has a tan-colored wall and a section of orange brickwork. A large window is visible on the right side of the image. The sky is blue with some clouds.

BEA

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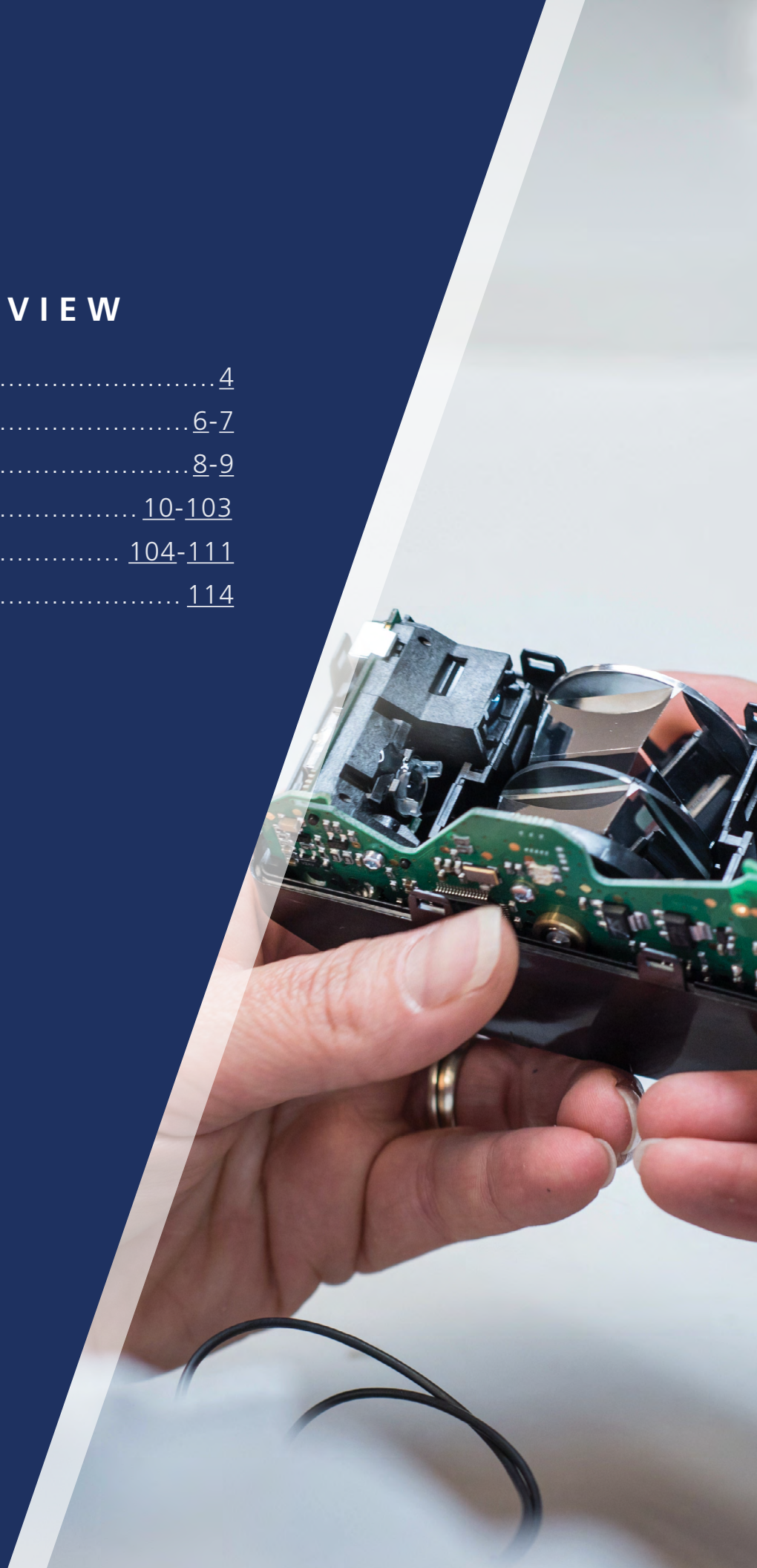
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TECHNOLOGIES



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.



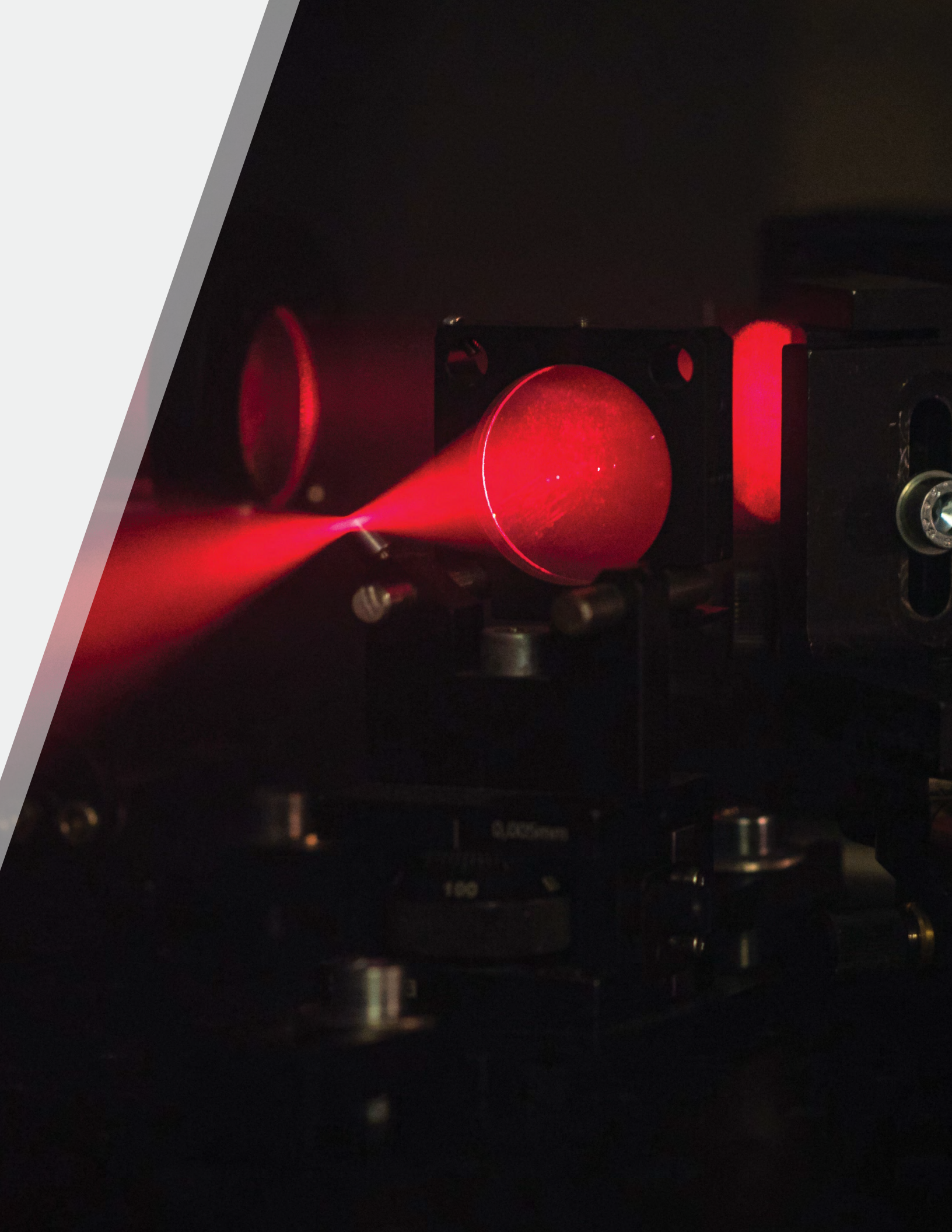
CAPACITIVE technology detects close-range electrically charged objects. A small voltage is applied to a conductive surface, resulting in a uniform electrostatic detection field. When a conductor, such as the human hand, enters this field, detection occurs.



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.



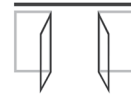
FIND YOUR APPLICATION

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



ESCALATORS

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

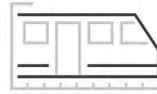
Sensing systems that count, record and analyze pedestrian traffic flows to maximize the efficiency of a building's setup and ensure that inventory placement is maximized.



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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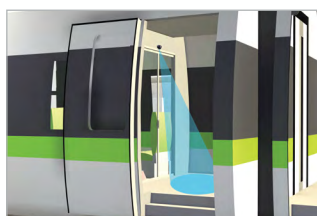
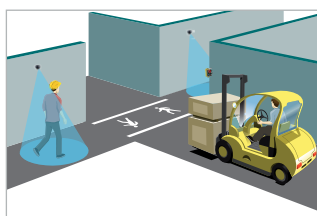
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COLIBRI ONE

Unidirectional motion sensor
for off-door applications

MOTION
SENSORS



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

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

PRODUCT SERIES

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



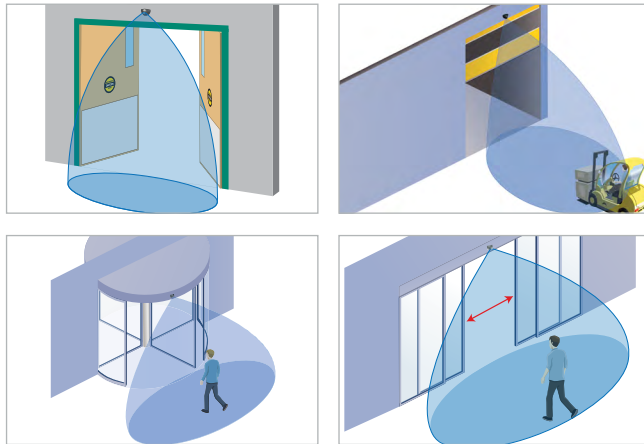
EAGLE FAMILY

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

Technology	Microwave Doppler Radar
Detection Mode	Motion
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm ²
Min. Detection Speed	2 in / s (measuring based on optimal conditions)
Mounting Height	EAGLE 6 – 13' EAGLE HM 10 – 16' 6"
Supply Voltage	12 – 24 VAC ±10%; 12 – 24 VDC 30% / –10%
Mains Frequency	50 – 60 Hz
Maximum Power Consumption	< 2 W
Output	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)
Cable Length	EAGLE 8' EAGLE HM 30'
Degree of Protection	IP54
Tilt Angles	0 – 90° vertical; -30 – 30° lateral
Norm Conformity	R&TTE 1999/5/EC, LVD 2006/95/EC, RoHS 2 2011/65/EU

PRODUCT SERIES

P/N	Description
10EAGLE	Flat antenna motion detector
10EAGLE1HM	Industrial motion sensor - up to 16.5' mounting height
10ERC	Deluxe EAGLE rain cover
10ECA	EAGLE ceiling adapter
10EMB	EAGLE mounting bracket
10ERA	Standard rain cover
10EQD	EAGLE quick disconnect harness (48")
10EAGLESPACER	Spacer for bi-fold applications
10INDBRACKET	Heavy duty extension bracket - adjustable from 20 – 36"
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS
20.0027	EAGLE 4-conductor cable (6' bundle)
30.0407	EAGLE 5-pin connector
70.0164	EAGLE bezel to cover antenna
70.0167	EAGLE cover with light pipe
70.0173	EAGLE wide microwave antenna
70.0182	EAGLE narrow microwave antenna
70.0167	Black replacement cover
66.0098	Silver replacement cover

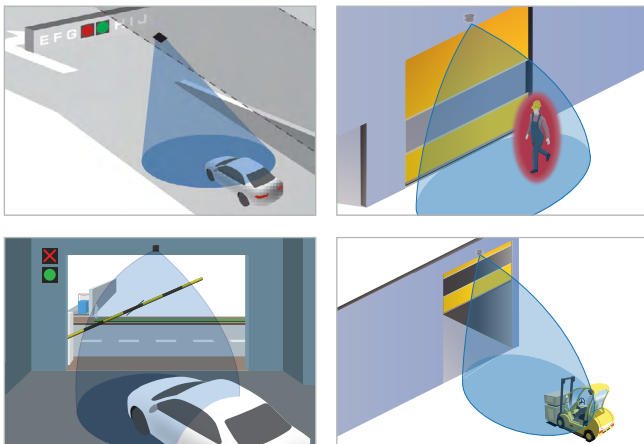


FALCON FAMILY

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
- IP65 rated enclosure



TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm ²
Detection Mode	Motion
Detection Zone	
FALCON	13' × 16' @ 16'
FALCON XL	13' × 6 1/2' @ 8 1/5'
FALCON WIDE	30' × 11' @ 21'
	Typical at 30° and field size 9
Tilt Angles	0 – 180°
Output	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)
Minimum Detection Speed	2 in / s
LEDs	Green: Value indication Red: Detection state & parameter indication
Mains Frequency	50 – 60 Hz
Supply Voltage	12 – 24 VAC; ±10% 12 – 24 VDC; 30% / -10%
Max Power Consumption	< 2 W
Mounting Height (W×D)	
FALCON	11 1/2 – 23'
FALCON XL	6 1/2 – 11 1/2'
FALCON WIDE	11 1/2 – 21'

TECHNICAL SPECIFICATIONS CONT'D

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

PRODUCT SERIES

P/N	Description
10FALCON	Industrial motion detector - 11 1/2 – 23' high mount
10FALCONW	Industrial motion detector with wide detection fields - 11 1/2 – 21' high mount
10FALCONXL	Industrial motion detector - 6 1/2 – 11 1/2' low mount
10INDBRACKET	Heavy duty extension bracket - adjustable from 20 – 36"
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL RECOMMENDED FOR ALL SENSOR ADJUSTMENTS
20.5365	FALCON harness, 100' cable
35.1240	FALCON harness, 30' cable

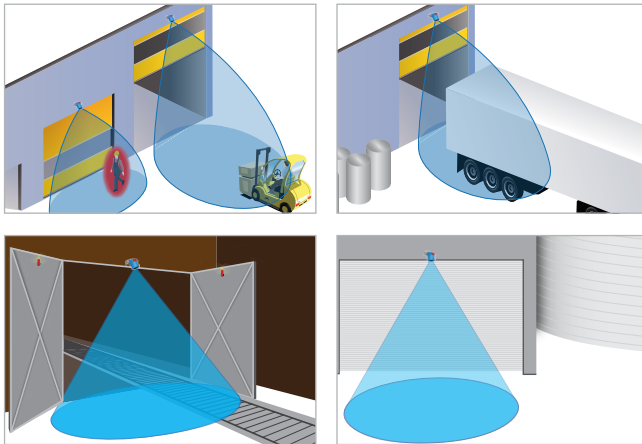


FALCON EX FAMILY

Motion sensor with explosion-proof / flame-proof housing

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 *



TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm ²
Detection Mode	Motion
Detection Zone	
FALCON EX	13' x 16' @ 16'
FALCON EX XL	13' x 6 1/2' @ 8 1/5'
FALCON EX W	30' x 11' @ 21'
	Typical at 30° and field size 9
Tilt Angles	-90 – 30° in elevation
Output	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)
Minimum Detection Speed	2 in / s
LED Signals	Green: Value indication Red: Detection state & parameter indication
Mains Frequency	50 – 60 Hz
Supply Voltage	12 – 24 VAC; ±10% 12 – 24 VDC; 30% / -10%
Maximum Power Consumption	< 2 W

TECHNICAL SPECIFICATIONS CONT'D

Mounting Height	
FALCON EX 100	11 1/2 – 23'
FALCON EX XL 100	6 1/2 – 11 1/2'
FALCON EX W 100	11 1/2 – 21'
Dimensions (Housing & Bracket)	5 1/2" (L) x 7 1/2" (W) x 9" (H)
Electrical Access NPT Pipe Thread	3/4"
Weight	11 lbs
Cable Length	100' or 30'
Housing / Bracket Material	Copper-free Aluminum / Aluminum
Temperature Range	-22 – 140° F
Degree of Protection (Housing)*	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
Norm Conformity	R&TTE: 1999 / 5 / EC; EMC: 2004 / 108 / EC

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

See page 14 for Product Series



FALCON EX FAMILY

Motion sensor with explosion-proof / flame-proof housing

PRODUCT SERIES

P/N	Description
10FALCONEX100	Standard mounting heights with 100' cable, 11 ½ – 23'
10FALCONEXW100	Wide detection fields with 100' cable
10FALCONEXXL100	Low mounting heights, 6 ½ – 11 ½', 100' cable included

PRODUCT SERIES CONT'D

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

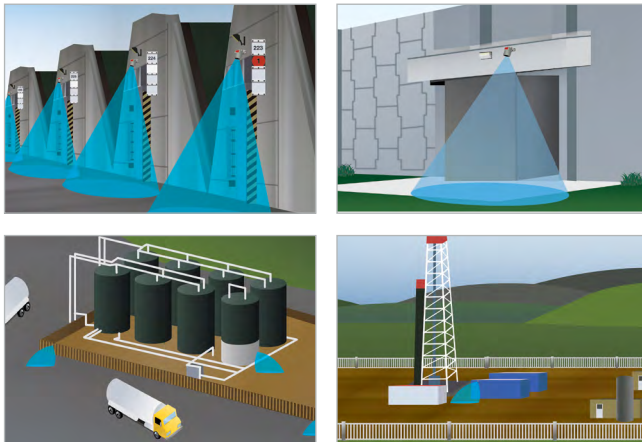


PHOENIX EX™ FAMILY

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
- 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

Technology	Microwave Doppler Radar
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm ²
Detection Mode	Motion
Anti-tamper Feature	Tamper alert via output
Detection Zone	
PHOENIX EX	13' x 16' @ 16'
PHOENIX EX XL	13' x 16 1/2' @ 8 1/2'
PHOENIX EX WIDE	30' x 11' @ 21'
	Typical at 30° and field size 9
Output*	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)
End-of-Line Resistors**	Default
Resistor 1	No Value
Resistor 2	No Value
Minimum Detection Speed	2.2 in / s
LED Signals	Green: Value indication upon query Red: Detection state & parameter indication
Supply Voltage	12 – 24 VAC; ±10% (50 – 60 Hz) 12 – 24 VDC; 30% / -10%
Maximum Power Consumption	< 2 W

TECHNICAL SPECIFICATIONS CONT'D

Electrical Access	3/4" NPT pipe thread
Cable Length	30 or 100' (default)
Mounting Height	
PHOENIX EX	11 1/2 – 23'
PHOENIX EX XL	6 1/2 – 11 1/2'
PHOENIX EX WIDE	11 1/2 – 21'
Dimensions (Housing & Bracket)	5 1/2" (H) x 7 1/2" (W) x 9" (L)
Weight	11 lbs
Housing / Bracket Material	Copper-free Aluminum / Aluminum
Temperature Range	-22 – 140 °F
Degree of Protection (Housing)***	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
Norm Conformity	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC FM: Approved Instrument Housing

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

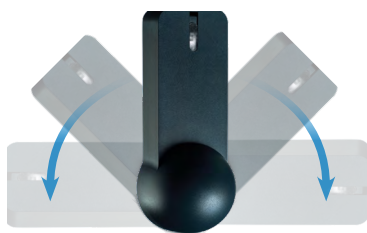
**End-of-line resistor values can be ordered to custom specifications to meet application requirements

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



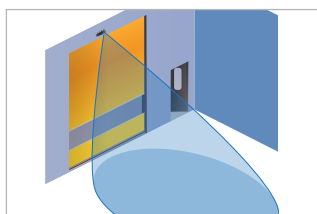
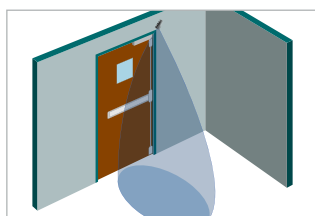
SPARROW

Variable mount industrial motion sensor



FEATURES & BENEFITS

- Mounting height from 6 ½ 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

Technology	Microwave Doppler Radar
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm ²
Detection Mode	Motion
Tilt Angles	0 – 90° vertical; -120 – 120° lateral
Output	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)
Minimum Detection Speed	2 in / s (measured in the sensor axis)
Mains Frequency	50 – 60 Hz
Supply Voltage	12 – 24 VAC ±10% 12 – 24 VDC 30% / -10%
Maximum Power Consumption	< 2 W
Mounting Height	6 ½ – 20'
Dimensions	5 ½" (L) × 2 ¼" (H) × 2 ½" (W)
Material	ABS
Color	Black
Weight	5.8 oz
Cable Length	30'
Temperature Range	-22 – 140 °F

TECHNICAL SPECIFICATIONS CONT'D

Degree of Protection	IP64
Norm Conformity	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC

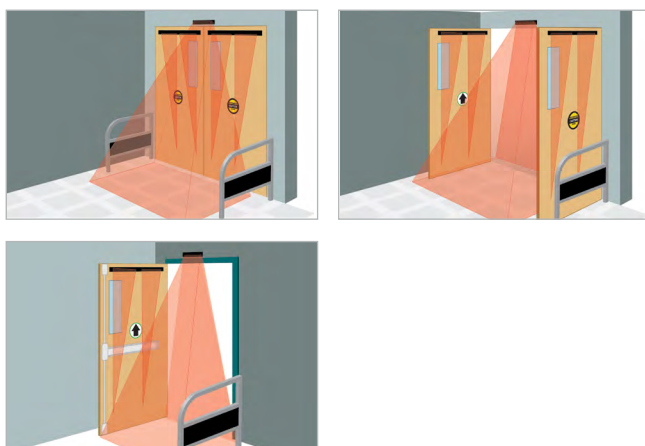
PRODUCT SERIES

P/N	Description
10SPARROW	Variable mount motion sensor
10REMOTE	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

TECHNICAL SPECIFICATIONS

Technology	Active Infrared
Detection Mode	Presence
Installation Height (variable)	9' 0" maximum (recommended: 6' 6" – 8' 0")
Mounting Angles	
BODYGUARD-T Only	5°, 10° (factory default setting: 5°)
With Bodymount	0°, 5°, 10°
Power Supply	12 – 24 VAC / DC ±10%
Mains Frequency	50 – 60 Hz
Output	
Max. Contact Current	1 A
Max. Contact Voltage	60 VDC / 125 VAC
Max Power Supply	30 W (DC), 60 VA (AC)
Relay Hold Time	0.5 – 9 s
Operating Temperature	-22 – 140 °F
Immunity	Immune to electrical and radio frequency interference
Cable	4'
Weight	1lb. 11 oz.
Dimensions	12" (W) × 2" (H) × 2" (D)
Material	Aluminum & ABS plastic
Housing	Black anodized aluminum

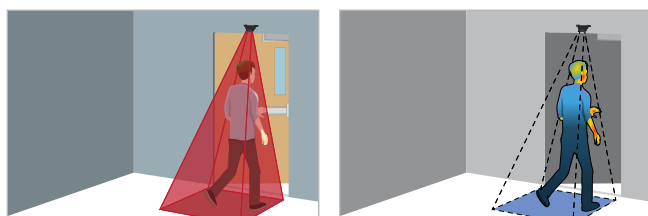
PRODUCT SERIES

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



FLY KIT

Compact, passive infrared request-to-exit sensor



FEATURES & BENEFITS

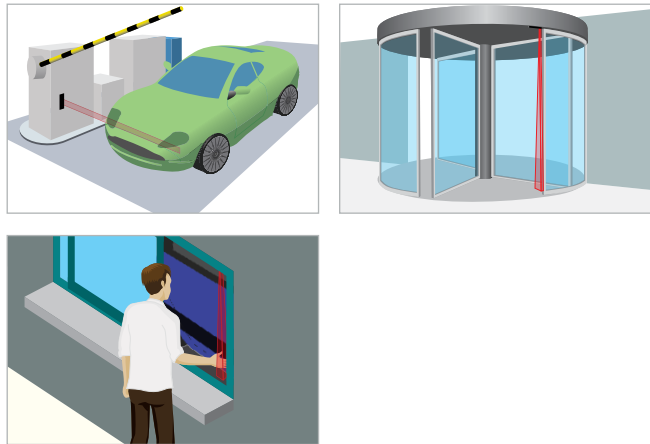
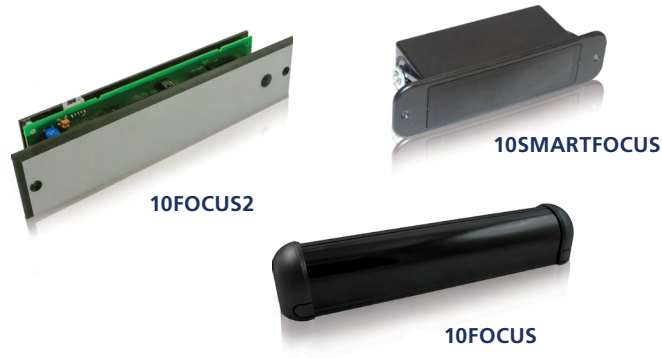
- Sensing field adjustment masks provide accurate detection zones (two included)
- DIP switches for user-defined settings
- Extended Relay Time (ERT) version is available for hold times of 15 or 30 seconds
- Compact, aesthetically pleasing design
- Packages include both ceiling and surface mount adapters

TECHNICAL SPECIFICATIONS

Technology	Passive Infrared
Mounting Height	
Recommended	6 ½ – 8'
Maximum	10'
Mounting Angles	0 – 180°
Power Supply	12 – 24 VAC; ±10%; (50/60 Hz) 12 – 24 VDC; –10% / 30%
Current Consumption	< 10 mA (20 mA if the relay output is activated)
Contact Rating	1 A / 75 VDC or 50 VAC potential free contact NO / NC
Optical Characteristics	Passive infrared with four elements 15 Fresnel lenses with full independent masking possibilities
Warm-up Time	10 s
Response Time	
Maximum	200 ms
Relay Hold Time	
Standard FLY	0.5 or 2 s
FLY Extended Relay Time	15 or 30 s
Operating Temperature	-22 – 140 °F (-30 – 55 °C)
Cable	108" (9') 4-conductor cable with 5-pin connector
Weight	1.4 oz (40 g)
Sensor Dimensions	4" (W) × 1 ½" (H) × 1" (D)
Housing Color	Black

PRODUCT SERIES

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



FOCUS FAMILY

Focused active infrared presence sensors

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

PRESENCE SENSORS

TECHNICAL SPECIFICATIONS

10FOCUS & 10FOCUS2

Technology	Focused Active Infrared
Detection Mode	Presence
Power Supply	24 VAC / VDC ±10%
Current Consumption	60 mA (On); 30 mA (Off)
Output Interface; relay	Relay; max. contact rating is 1 A @ 30 V (resistive)
Detection Range	0 – 8 ½'
Distance Adjustment	2 – 8', rotating cam with linear adjustment
Detection Time	< 50 ms
Detection Signal Duration	Infinite Presence Detection
LED Indications	Green LED = Detection
Operating Temperature Range	-30 – 140 °F
Connection to Controller	5-conductor cable
Relay Output	NO or NC

10SMARTFOCUS

Technology	Focused Active Infrared
Detection Mode	Presence detection by distance measurement
Detection Zone (W x D)	1 19/50" x 2 19/25" @ 7 1/4'
Light Indicator	Red LED: is ON during detection Orange LED: flashes 1x after power on

TECHNICAL SPECIFICATIONS CONT'D

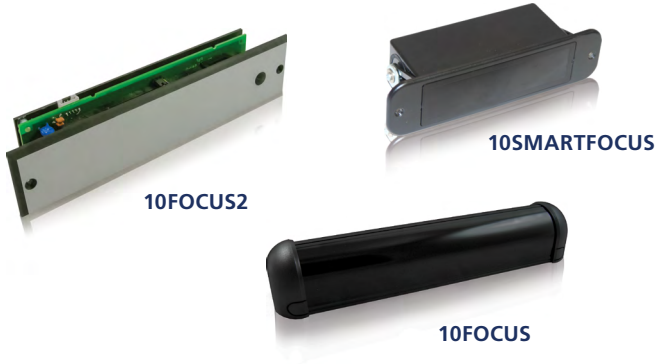
Response Time	64 ms
Mounting Height	2 – 10'
Supply Voltage	12 – 24 VAC / VDC -5% / 10%
Mains Frequency	50 – 60 Hz
Max. Current Consumption	120 mA @ 24 VAC / 80 mA @ 24 VDC
Standard Output	Relay (free of potential contact) Max. Contact Voltage 42 VAC / DC Max. Contact Current 1 A (resistive) Max. Switching Power 30 W (DC) / 42 VA (AC)
Monitoring Input	1 optocoupler (free of potential contact) Max. contact voltage 30 V Voltage threshold High state: > 10 V Low state: < 1 V
Hold Time	0.5 s
Reflectivity	min. 10% at IR-wavelength of 850nm
Temperature Range	-13 – 131 °F (-25 – 55 °C); 0 – 95% rel. humidity, non-condensing
Degree of Protection	IP53
Dimensions	5 3/4" (W) x 1 3/5" (H) x 2" (D)
Length of main cable	8'
Norm Conformity	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



FOCUS FAMILY

Focused active infrared presence sensors

**10FOCUS2****10SMARTFOCUS****10FOCUS**

PRODUCT SERIES

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

PRODUCT SERIES CONT'D

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



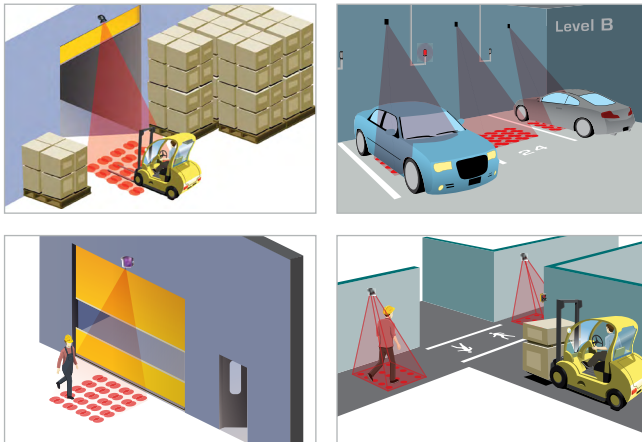
IS40P

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

Technology	Active Infrared
Detection Mode	Presence
Mains Frequency	50 – 60 Hz
Power Consumption	< 3.5 W
Relay Output	2 Relays (free of potential change-over contact)
Max. Contact Voltage	42 VAC / VDC
Max. Contact Current	1 A (resistive)
Max. Switching Power	30 W (DC) / 48 VA (AC)
Supply Voltage	12 – 24 VAC ±10% 12 – 24 VDC 10% / -3%
Temperature Range	-22 – 140 °F
Tilt Angle	15 – 45°
Transmitter Frequency / Wavelength	875 nm
Transmitter Power Density	< 250 mW / m ²
Detection Field	10 × 10' @ max. mounting height of 16' (emitting spots*)
Output Hold Time	0.5 s
Min. Detection Speed	0 in / s to activate detection
Reaction Time	250 ms
Mounting Height	8 – 16'

TECHNICAL SPECIFICATIONS CONT'D

Humidity	0 – 95% non-condensing
Weight	14 oz
Dimensions	3 4/5" (W) × 4" (H) × 5" (D)
Material	ABS & Polycarbonate
Cable Length	32'
Degree of Protection	IP65
Norm Conformity	EMC: 2004 / 108 / EEC R&TTE: 1999 / 5 / EC

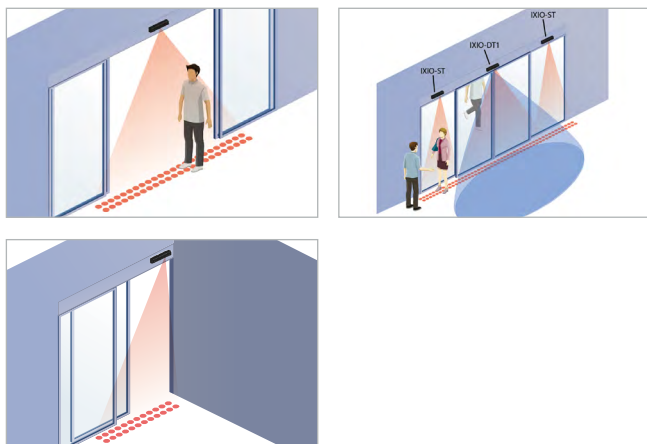
PRODUCT SERIES

P/N	Description
10IS40P	Industrial sensor utilizing active infrared presence detection
10INDBRACKET	Heavy duty extension bracket - adjustable from 20 – 36"
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL RECOMMENDED FOR ALL SENSOR ADJUSTMENTS
10SPOTFINDER	Active infrared spotfinder
35.1195	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

Technology	Active Infrared
Detection Mode	Presence
Spot Size	2" x 2"
Max. Number of Spots	24 per curtain
Max. Number of Curtains	2
Output	Solid-state-relay (potential and polarity free)
Max. Contact Voltage	42 VAC / VDC
Max. Contact Current	400 mA
Hold Time	0.3 – 1 s
Test Input	
Sensitivity	Low: <1 V; High: > 10 V (max.30 V) Response time on test request: typical: < 5 ms
Supply Voltage	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)
Power Consumption	< 2.5 W
Mounting Height	6 ½ – 11 ½'
Temperature Range	-13 – 131 °F 0 – 95% relative humidity, non condensing
Degree of Protection	IP54
Applicable Directives	R&TTE 1999 / 5 / EC; LVD 2006 / 95 / EC; MD 2006 / 42 / EC; ROHS 2 2011 / 65 / EU

TECHNICAL SPECIFICATIONS CONT'D

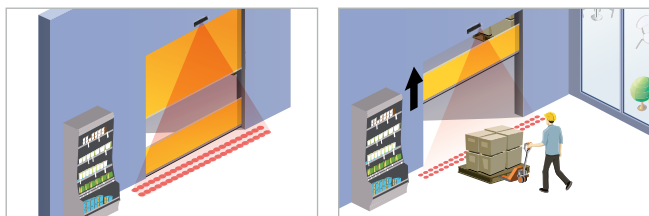
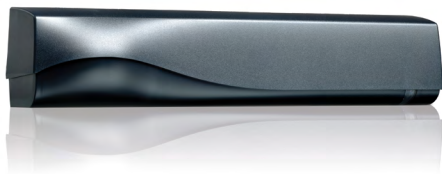
Dimensions	10 ¾" (W) x 2 ¼" (H) x 2 ¼" (D)
Cable Length	10'
Norm Conformity	ISO 13849-1:2008 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) IEC 61496-1:2012 ESPE Type 2

PRODUCT SERIES

P/N	Description
10IXIOST	Active infrared presence sensor for sliding doors
10ICA	IXIO ceiling accessory
10IMB	IXIO bracket accessory
10IRA	IXIO rain accessory
10IXIOSPACER	IXIO spacer, black
10REMOTE	UNIVERSAL REMOTE CONTROL
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
20.5349	10' wire harness
20.5359	30' wire harness
35.1345	Black replacement cover
35.1302	White replacement cover
35.1303	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
- 30 foot cable for larger / higher doors

PRESENCE
SENSORS

TECHNICAL SPECIFICATIONS

Technology	Active Infrared
Detection Mode	Presence
Spot Size	2 x 2"
Max. Number of Spots	24 per curtain
Max. Number of Curtains	2
Output	Solid-state-relay (potential and polarity free)
Max. Contact Voltage	42 VAC / VDC
Max. Contact Current	400 mA
Hold Time	0.3 – 1 s
Test Input	
Sensitivity	Low: <1 V; High: > 10 V (max.30 V) Response time on test request: typical: < 5 ms
Supply Voltage	12 – 24 VAC ±10%; 12 – 30 VDC ±10% (to be operated from SELV compatible power supplies only)
Power Consumption	< 2.5 W
Mounting Height	6 ½ – 11 ½'
Temperature Range	-13 – 131 °F 0 – 95% relative humidity, non condensing
Degree of Protection	IP54
Applicable Directives	R&TTE 1999 / 5 / EC; LVD 2006 / 95 / EC; MD 2006 / 42 / EC; ROHS 2 2011 / 65 / EU

TECHNICAL SPECIFICATIONS CONT'D

Dimensions	10 ¾" (W) x 2 ¼" (H) x 2 ¼" (D)
Cable Length	30'
Norm Conformity	ISO 13849-1:2008 PL «C» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) IEC 61496-1:2012 ESPE Type 2

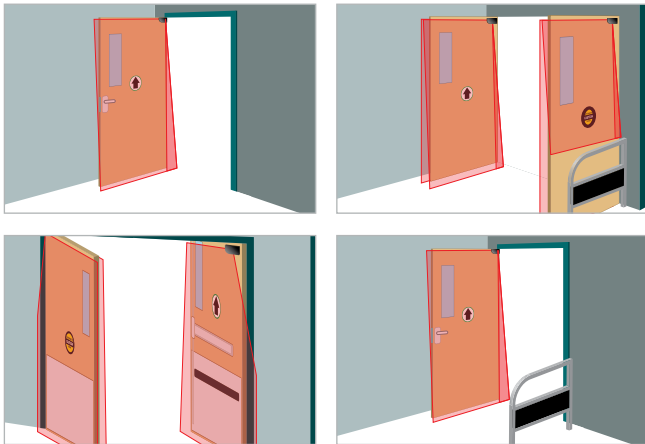
PRODUCT SERIES

P/N	Description
10IXIOSTINDUS	Active infrared safety sensor for small interior industrial doors
10ICA	IXIO ceiling accessory
10IMB	IXIO bracket accessory
10IRA	IXIO rain accessory
10IXIOSPACER	IXIO spacer, black
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL
20.5349	10' wire harness
20.5359	30' wire harness
35.1345	Black replacement cover
35.1302	White replacement cover
35.1303	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 3/4 inch
- Hub-less system offers fewer components for easier setup and installation

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight
Detection Mode	Presence
Max. Detection Range	13' (diagonal) with reflectivity of 2% (e.g. at W = 5' → max. H = 12'), see Page 15 of Users Guide
Detection Area	
Door Leaf Safety	90°
Pinch Zone Safety	16°
Angular Resolution	
Door Leaf Safety	1.3°
Pinch Zone Safety	0.2°
Typ. Min. Object Size	
Door Leaf Safety	4" @ 13' (in proportion to object distance, DIP 2 = ON)
Pinch Zone Safety	3/4" @ 13' (in proportion to object distance, DIP 2 = ON)
Emission Characteristics	Wavelength 905 nm; max. output pulse power 25 W; Class 1
Supply Voltage	12 – 24 VDC ±15%
Power Consumption	≤ 2 W
Response Time	
Door Leaf Safety	max. 50 ms
Pinch Zone Safety	max. 90 ms
Test Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)

TECHNICAL SPECIFICATIONS CONT'D

Output	2 electronic relays (galvanic isolation - polarity free)
Max. Switching Voltage	42 VAC / VDC
Max. Switching Current	100 mA
LED Signals	Red = swing side detection Green = approach side detection Yellow = error
Dimensions	5 1/2" (W) × 3 1/3" (H) × 1.0" (D) (mounting bracket adds 1/4")
Material / Color	PC/ASA / Black, White or Silver
Tilt Angles	2 – 10° (without mounting bracket)
Degree of Protection	IP54 (EN 60529)
Temperature Range	-22 – 140 °F (if powered)
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Min. Door Leaf Speed	2° / s
Norm Conformity	ISO 13849-1 PI "d" / CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2

See next page for Product Series



LZR®-FLATSCAN SW

Stand-alone, door mounted safety sensor for swing doors

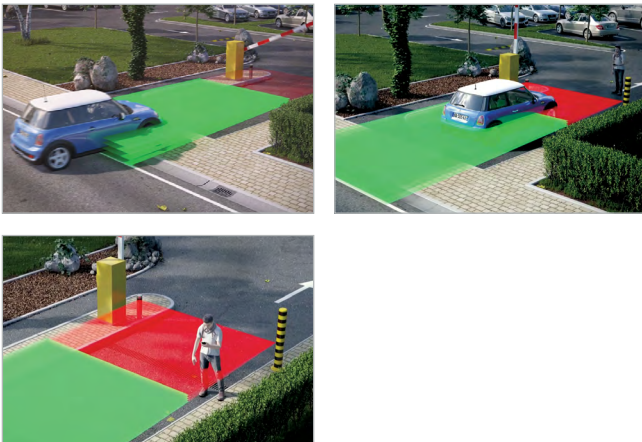
PRODUCT SERIES

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

PRODUCT SERIES CONT'D

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

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

TECHNICAL SPECIFICATIONS CONT'D

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

PRODUCT SERIES

P/N	Description
10LZRH100	LASER scanner with highly precise detection zone
10LBA	LZR mounting bracket accessory *SOLD SEPARATELY
10PSMDR2024	DIN Rail Power Supply, 100 – 240 VAC / 24 VDC Power Supply
10REMOTE	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS



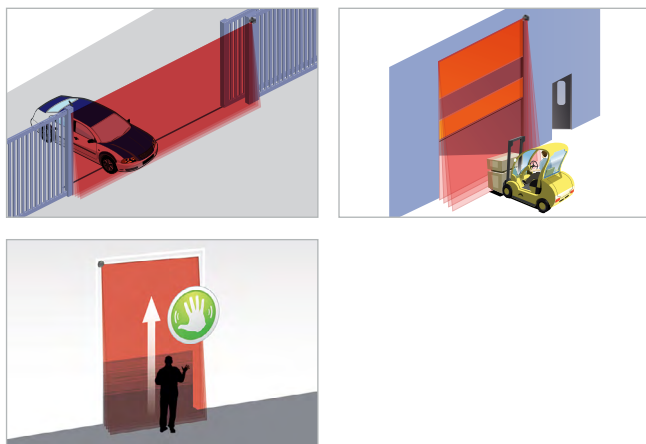
LZR®-130

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: IP65
- Has the ability to ignore dynamic ground conditions and extreme weather
- Three visible LEDs for pattern alignment

PRESENCE SENSORS



TECHNICAL SPECIFICATIONS

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

TECHNICAL SPECIFICATIONS CONT'D

Rotation Angle on Bracket	±5° (Lockable)
Tilt Angle on Bracket	±3°
Dimensions	Housing 5" (W) × 2 ¾" (H) × 3 ½" (D) 10LBA Mounting Bracket Adds 1 ½"
Degree of Protection	IP65
Temperature Range	-22 – 140 °F if powered 14 – 140 °F if unpowered
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Pollution on Front Screens	Max. 30% ; Homogeneous
Test Body Dimensions	700 mm × 200 mm × 200 mm (test body A according to EN 12445)
Norm Conformity	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

PRESENCE SENSORS

PRODUCT SERIES

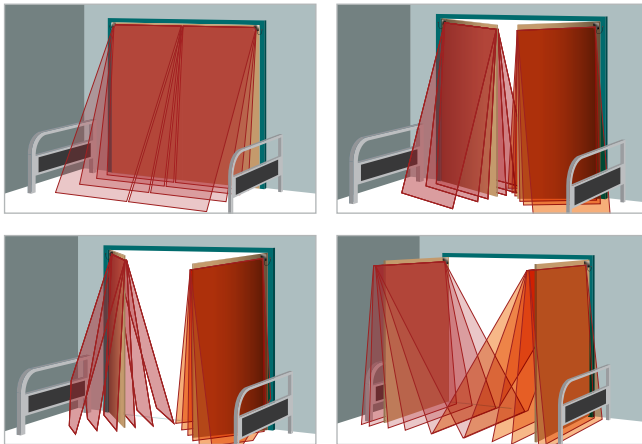
PRODUCT SERIES CONT'D

P/N	Description
10LZR130	LASER scanner with highly precise detection zone
10INDBRACKET	Heavy duty extension bracket - adjustable from 20 – 36"
10LBA	LZR mounting bracket accessory *SOLD SEPARATELY
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10PSMDR2024	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply

P/N	Description
10PS12-24	UL / ULC Listed power supply
10PSVR5T	Voltage regulator, 24 VAC / 24 VDC
10REMOTE	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS
35.1242	30', 8-conductor cable

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

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

TECHNICAL SPECIFICATIONS CONT'D

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

*See Application Notes or contact BEA for technical support.

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



LZR®-MICROSCAN T

Standalone, door-mounted,
swing door safety system

PRODUCT SERIES

P/N	Description
10LZRMICROSCAN1T	Single door kit (1) left sensor, (1) right sensor, (1) hub, (1) primary harness, (1) secondary harness, (1) door control harness, (1) home switch, (1) door loop / cap kit, (1) sensor spacer
10LZRMICROSCAN1UT	(1) 10LZRMICROSCAN1T, (1) 10LZRMICROSCAN-UKIT
10LZRMICROSCAN2T	Pair / Dual Egress door kit (2) left sensors, (2) right sensors, (1) hub, (2) primary harnesses, (2) secondary harnesses, (2) door control harnesses, (2) home switches, (2) door loops / cap kits, (2) sensor spacers
10LZRMICROSCAN2UT	(1) 10LZRMICROSCAN2T, (1) 10LZRMICROSCAN-UKIT
10LZRMICROSCAN-UKIT	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
10MICROSCANMOUNT	Center pivot door mounting kit includes: (1) Left mounting arm (1) Right mounting arm
10MICROSCAN-Y	Glass / Fire door mounting kit includes: (1) 20.5319 - 20" secondary harness (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
10LZRMICROLEFT	Left LZR-MICROSCAN-T sensor
10LZRMICRORIGHTT	Right LZR-MICROSCAN-T sensor
10LZRMICROSCANHUBT	LZR-MICROSCAN-T hub
10DOORSWITCH	Universal Kit ON / OFF / HOLD OPEN switch
20.5095	Power supply harness
20.5096	EAGLE harness
20.5222	Door control harness
20.5304	System harness
20.5310	ON / OFF / HOLD OPEN switch jumper
20.5319	20" secondary harness for 10MICROSCANMOUNT
20.5320	"Y" cable LZR-MICROSCAN-T hub to LZR-MICROSCAN-T harness
20.5322	Plug-n-play harness for Horton 4190
30.5558	Universal kit power supply
30.5580	2-wire switch
35.1326	Primary sensor harness
35.1327	Secondary sensor harness
41.7922	Left pass-through sensor end cap
41.7923	Right pass-through sensor end cap
41.8632	End cap screws
50.0046	Velcro tabs
50.0048	Spacer mount screws
50.0078	Jamb cap kit
50.1818	Spacer mount screws (metal)
50.5282	Spacer mount screws (wood)
50.5283	Home Switch (surface mount)
70.0202	26" standard door cord loop
70.5554	Sensor spacer
75.5754	LZR-MICROSCAN-T mounting template
78.0053	LZR-MICROSCAN-T wiring matrix



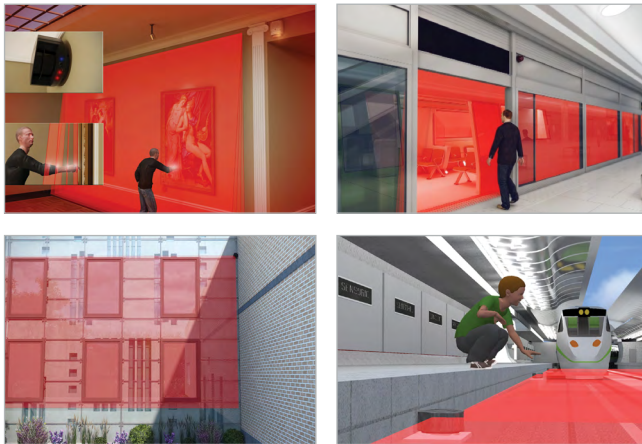
LZR®-S600

LASER scanner for building automation and security

FEATURES & BENEFITS

- Maximum detection range of 82 × 82 feet
- Degree of protection: IP65
- High immunity to environmental interferences
- Has the ability to ignore dynamic ground conditions and extreme weather

PRESENCE SENSORS



TECHNICAL SPECIFICATIONS

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

TECHNICAL SPECIFICATIONS CONT'D

Color	Black
Rotation Angle on Bracket	±5° (Lockable)
Tilt Angle on Bracket	±3°
Dimensions	Housing 5.0" (W) × 2.75" (H) × 3.6" (D) 10LBA Mounting Bracket Adds 0.55"
Degree of Protection	NEMA 4 / IP65
Temperature Range	-22 – 140 °F if powered 14 – 140 °F if unpowered
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Pollution on Front Screens	Max. 30% ; Homogeneous
Norm Conformity	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

PRESENCE SENSORS

PRODUCT SERIES

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

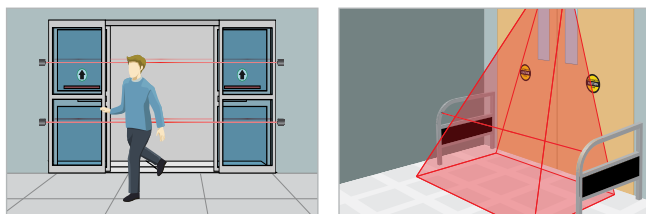
PRODUCT SERIES CONT'D

P/N	Description
10PSVR5T	Voltage regulator, 24 VAC / 24 VDC
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS
35.1242	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 15 feet, 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

Technology	Active Infrared
Detection Mode	Presence (Beam Interruption)
Min. Mounting Height	12" from floor
Min. Distance Between Beams	12" (crossed beams)
Min. Range of Detection	3'
Max. Range of Detection	15'
Alignment Tolerance	8°
Response Time	≤ 40 ms
Hold Time	300 ms
Supply Voltage	12 – 24 VAC; ±10% 12 – 24 VDC; -5% / 30%
Current Consumption	< 100 mA
Output Contact Rating	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)
Adjustment (via DIP Switch)	Single / Double beams Standard / Inverted outputs Standard / Reduced range Test / Default
Operating Temperature	-30 – 131 °F

TECHNICAL SPECIFICATIONS CONT'D

Dimensions	
Head Body	< 1 ⁵ / ₃₂ " (L embed) × 1 ⁵ / ₃₂ " (∅)
Head Harness	5 ⁷ / ₈ " (∅)
Control Board	3" (W) × 1" (H) × 2" (D)
Immunity	
Ambient Light	75,000 lux
Incandescent Lamp	25,000 lux @ 8° angle
Electromagnetic Compatibility	According to 89 / 336 / EEC
Cable Length	18' (standard), 32' (optional)
Material	ABS
Degree of Protection	NEMA 4 / IP65 (beam heads)

See page 34 for Product Series



ANSI



MICROCELL ONE

Photo beams for pedestrian automatic doors

PRESENCE SENSORS

PRODUCT SERIES

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

PRODUCT SERIES CONT'D

P/N	Description
10MICRO1SADAPT	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
10MICRO1DADAPT	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
20.0035	3" Emitter and 3" Receiver, ordered as a set
20.0045	Jamb cap kit with screws
20.0055	Emitter and Receiver 32' cable set
20.0056	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

PRESENCE SENSORS

TECHNICAL SPECIFICATIONS

Technology	Focused Active Infrared
Supply Voltage	12 – 24 VAC / VDC; ±10% @ 60 Hz
Current	
Sounder OFF	155 mA
Sounder MAX VOLUME	200 mA
Temperature (UL Install)	32 – 120 °F (0 – 49 °C)
Temperature	-20 – 120 °F (-29 – 49 °C)
Humidity	
UL S319 Installation	0% – 93% non-condensing
UL 294 Installation	0% – 85% non-condensing
Detection Range	20 – 48", adjustable
Relay	2 Form "C" contact sets; 1.3 A @ 24 VAC / 30 VDC
Relay Hold Time	0.5 – 60 s, adjustable
Sounder	85 dB max, adjustable volume
Indicator LEDs	Green, Red, Yellow, Orange
REX Input	DRY contact, NO
Card Reader Input	DRY contact, NC
Door Position Switch Input	DRY contact, NO
Dimensions	6 7/10" (W) × 1 7/10" (H) × 2" (D)
Material	Plastic (ABS and PC)
Wiring Interface	JST (14-pin) with 4' cable
Norm Conformity	UL 294 / ULC S319; FCC Part 15 B

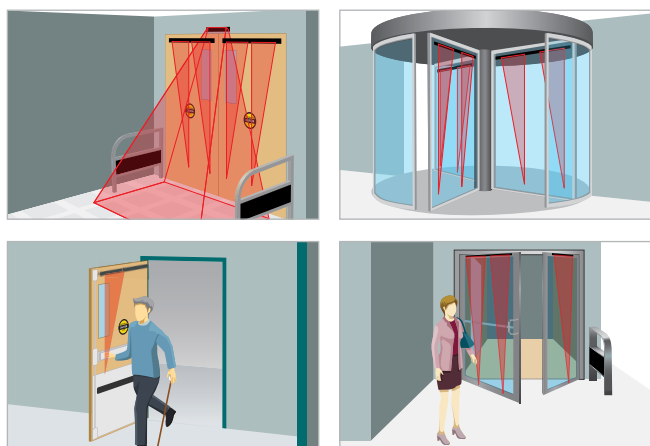
PRODUCT SERIES

P/N	Description
10R2E-100	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

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

TECHNICAL SPECIFICATIONS CONT'D

LED Indications	
Primary	Red LED = Detection Green LED = Active Output
Secondary	Red LED = Detection
Operating Temperature Range	-30 – 140 °F
PCB Dimensions	
Primary	10.91" (W) × 1.5" (H)
Secondary	8.75" (W) × 1.5" (H)
Connection (Door Controller)	8-position screw terminal on primary PCB
Connection (Primary to Secondary)	Flat ribbon cable with connectors and key lock
Max. Number of Secondaries	Standard = 9 With monitoring = 8
Functions Selection	Detection mode - NO or NC Normal mode or background analysis mode
Norm Conformity*	UL 10B/C (90 minutes) UL 10B file number: GVUX.R39071; UL10C file number: GVUX7.R9071

NOTES:

* 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



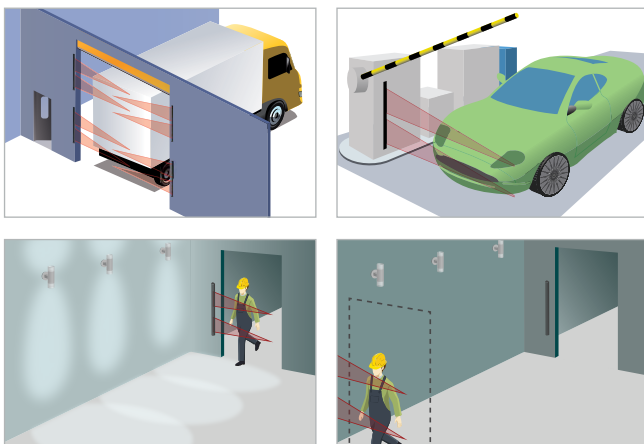
SUPERSCAN-T INDUSTRIAL

Active infrared
presence sensor

PRESENCE SENSORS

FEATURES & BENEFITS

- Detection range of zero to 96 inches
- Primary with up to eight secondaries 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



TECHNICAL SPECIFICATIONS

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

TECHNICAL SPECIFICATIONS CONT'D

LED Indications	
Primary	Red LED = Detection Green LED = Active Output
Secondary	Red LED = Detection
Operating Temperature Range	-30 – 140 °F
PCB Dimensions	
Primary	10.91" (W) × 1.5" (H)
Secondary	8.75" (W) × 1.5" (H)
Connection (Door Controller)	8-position screw terminal on primary PCB
Connection (Primary to Secondary)	Flat ribbon cable with connectors and key lock
Max. Number of Secondaries	Standard = 9 With monitoring = 8
Functions Selection	Detection mode - NO or NC Normal mode or background analysis mode
Norm Conformity*	UL 10B/C (90 minutes) UL 10B file number: GVUX.R39071; UL10C file number: GVUX7.R9071

NOTES:
* 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
10SSTI	1 Primary 34.5" end cap to end cap (for 36" doors)
10SSTICUSTOM	1 Primary Custom Length (13" min.)
10SSTI40	1 Primary 40" end cap to end cap (for 42" doors)
10SSTI42	1 Primary 42" end cap to end cap (for 44" doors)
10SSTI48	1 Primary 48" end cap to end cap (for 50" plus doors)
10SSTII	1 Primary 1 Secondary 34.5" end cap to end cap (for 36" doors)
10SSTIICUSTOM	1 Primary 1 Secondary Custom Length, (24.5" min.)
10SSTII40	1 Primary 1 Secondary 40" end cap to end cap (for 42" doors)
10SSTII42	1 Primary 1 Secondary 42" end cap to end cap (for 44" doors)
10SSTII44	1 Primary 1 Secondary 44" end cap to end cap (for 46" doors)
10SSTII48	1 Primary 1 Secondary 48" end cap to end cap (for 50" plus doors)
10SSTIII	1 Primary 2 Secondaries 34.5" end cap to end cap (for 36" doors)
10SSTIIICUSTOM	1 Primary 2 Secondaries Custom Length (34.5" min.)
10SSTIVCUSTOM	1 Primary 3 Secondaries Custom Length (46.5" min.)
10SSTSECONDARY	SUPERSCAN-T secondary unit includes ribbon connector (no housing)
10SSTPRIMARY	SUPERSCAN-T primary unit (no housing)
10SSQD	Quick disconnect for SUPERSCAN-T - one needed per door
10GTSSHARN	SUPERSCAN-T / BODYGUARD-T Gyrotech relay harness
10SSHARDWARE	SUPERSCAN-T hardware kit Includes cord sheath, jamb caps with screws and end caps with screws

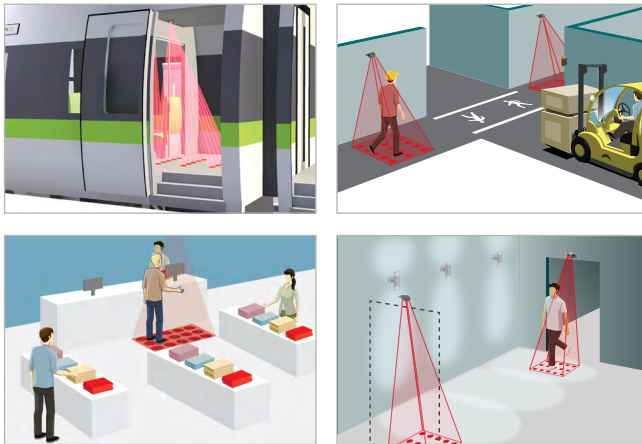
PRODUCT SERIES CONT'D

P/N	Description
10CAPKIT	(1) Left / (1) right end cap and mounting screws
10HORTONSSHARN	SUPERSCAN-T / BODYGUARD-T relay harness for use with Horton Control
10LE21	Lock out relay for low energy doors that inhibits approach-side SUPERSCAN-T sensors on automatic doors when used manually
20.2002	6-conductor cable, cut to 108" (9')
30.0015	Ribbon connector cable connects prima- rys and secondaries
41.3879	Adjustable mounting clips for primary and secondary
55.0001	Door cord jamb cap and screw
70.0025	Aluminum housing- ordered per inch - stocked in 102" lengths
70.0046	Aluminum housing cut to 33" (for a 34.5" SUPERSCAN-T)
70.0048	Aluminum housing cut to 38.5" (for a 40" SUPERSCAN-T)
70.0049	Aluminum housing cut to 40.5" (for a 42" SUPERSCAN-T)
70.0050	Aluminum housing cut to 46.5" (for a 48" SUPERSCAN-T)
70.0138	Lens piece, ordered per inch - stocked in 102" lengths
70.0202	Standard 26" SUPERSCAN-T door cord sheath, ordered per piece
70.0203	Lens piece cut to standard 33" lens (for a 34.5" SUPERSCAN-T)
70.0304	SUPERSCAN-T hardware kit Includes cord sheath and jamb caps with screws
70.0319	Lens piece cut to 38.5" (for a 40" SUPERSCAN-T)
70.0320	Lens piece cut to 40.5" (for a 42" SUPERSCAN-T)
70.0321	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 3 3/10 x 3 9/10 feet when mounted at a height of 6 1/2 feet
- 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

MOTION + PRESENCE SENSORS

TECHNICAL SPECIFICATIONS

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

TECHNICAL SPECIFICATIONS CONT'D

Temperature Range	-13 – 136 °F (operating); -22 – 140 °F (storage)
Degree of Protection	IP41
Dimensions	5 1/2" (W) x 1 1/2" (H) x 2 1/5" (D)
Weight	3 1/2 oz
Enclosure Material / Color	Polycarbonate / Black
Cable Length	8'

PRODUCT SERIES

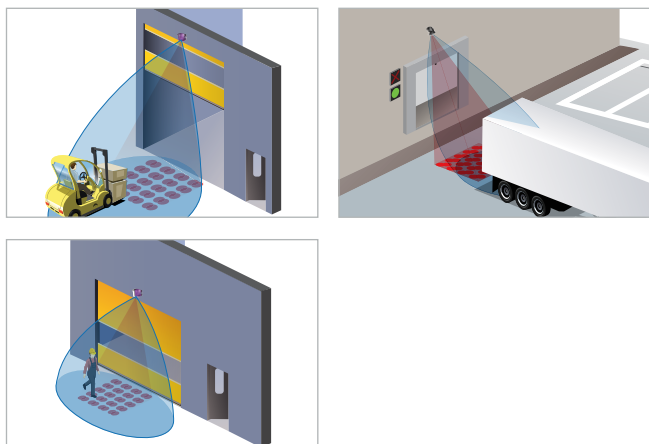
P/N	Description
10BEAMBOX	Uses a 3 x 5 matrix of infrared spots, 15 total, where each can be individually activated <i>Monitoring capable</i>
10REMOTE	UNIVERSAL REMOTE CONTROL REQUIRED FOR ALL SENSOR ADJUSTMENTS
10SPOTFINDER	Active infrared spotfinder



IS40 / XL

Motion and presence sensor series for industrial doors

MOTION + PRESENCE SENSORS



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

Technology	Microwave Doppler Radar	Active Infrared
Detection Mode	Motion	Presence
LED Signal	Green (Activation Relay)	Red (Presence Relay)
Transmitter Frequency / Wavelength	24.150 GHz	875 nm
Transmitter Power Density	< 5 mW / cm ²	< 250 mW / m ²
Max. Detection Field		
IS40	13' x 16 1/2'	10' x 10'
IS40XL	13' x 16 1/2'	7 1/2' x 7 1/2'
Output Hold Time	0.5 – 9 s	0.5 s
Min. Detection Speed	2 in / s in sensor axis	0 in / s
Tilt Angle	-8 – 22° (Relative to sensor face)	15 – 45°
Mains Frequency	50 – 60 Hz	
Power Consumption	< 3.5 W	
Relay Output	2 relays (free of potential change-over contact)	
Max. Contact Voltage	42 VAC / VDC	
Max. Contact Current	1 A (resistive)	
Max. Switching Power	30 W (DC) / 48 VA (AC)	
Installation Height		
IS40	8 – 16'	
IS40XL	6 1/2 – 11 1/2'	
Temperature Range	-22 – 140 °F	

TECHNICAL SPECIFICATIONS CONT'D

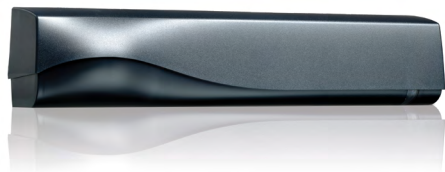
Dimensions	3 3/4" (W) x 4" (H) x 5" (D)
Materials	ABS & Polycarbonate
Cable Length	30'
Degree of Protection	IP65
Norm Conformity	R&TTE: 1999 / 5 / EC; EMC 2004 / 108 / EEC

PRODUCT SERIES

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

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

TECHNICAL SPECIFICATIONS CONT'D

Power Consumption	< 2.5 W
Temperature Range	-13 – 131 °F 0 – 95% relative humidity, non condensing
Mounting Height	6 ½ x 11 ½'
Degree of Protection	IP54
Dimensions	10 ¾" (W) x 2 ¼" (H) x 2 ¼" (D)
Cable Length	10'
Norm Conformity	ISO 13849-1:2008 PL «C» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) IEC 61496-1:2012 ESPE Type 2

See page 42 for Product Series



IXIO-DT1

Motion and presence sensor for automatic sliding doors



PRODUCT SERIES

PRODUCT SERIES CONT'D

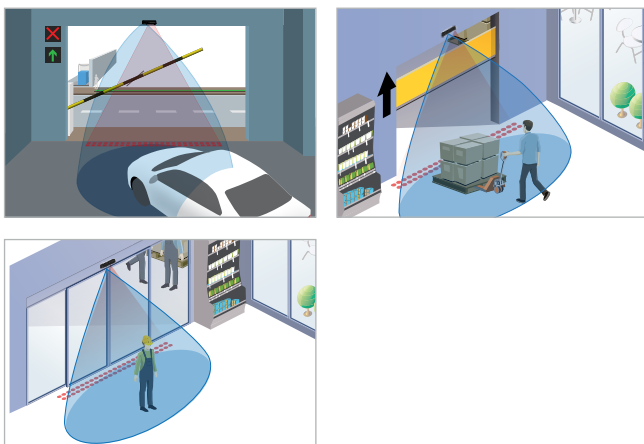
P/N	Description
10IXIODT1	Dual technology sensor for sliding doors
10CDA	IXIO curved door accessory
10ICA	IXIO ceiling accessory
10IMB	IXIO bracket accessory
10IRA	IXIO rain accessory
10IXIOSPACER	Black, plastic spacer
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE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

P/N	Description
20.5349	10' wire harness
20.5359	30' wire harness
20.5302	Harness for Optex - IXIO conversion
35.1345	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

MOTION + PRESENCE SENSORS

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

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

TECHNICAL SPECIFICATIONS CONT'D

Power Consumption	< 2.5 W
Temperature Range	-13 – 131 °F, 0 – 95% relative humidity, non condensing
Mounting Height	6 ½ – 11 ½'
Degree of Protection	IP54
Applicable Directives	R&TTE 1999 / 5 / EC; EMC 2004 / 108 / EC; MD 2006 / 42 / EC; RoHS 2002 / 95 / EC
Dimensions	10 ¾" (W) x 2 ¼" (H) x 2 ¼" (D)
Cable Length	30'

See page 44 for Product Series



IXIO-DT1 INDUSTRIAL

Motion and presence sensor for interior industrial doors



PRODUCT SERIES

P/N	Description
10IXIODT1INDUS	Dual technology industrial sensor utilizing microwave motion and active infrared presence sensor. <i>Includes 30' cable</i>
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	10' wire harness
20.5359	30' wire harness
20.5302	Harness for Optex - IXIO conversion
35.1345	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-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; ±10% 6.0 – 28 VAC; ±10%
Operating Temperature	-22 – 140 °F (RH 95% max)
Video Output	1.0 (Vp-p) / 75Ω
Image Sensor	CMOS
Horizontal Resolution	480 TVL
NTSC Output	720 (H) × 480 (W)
Sync System	Inter-Sync
Frame Rate	30 fps
Minimum Illumination	0.01 LUX
AE Control	Auto
Gain Control	Auto
Electronic Shutter	1 s ~ 1/10,000 s
S/N Ratio	> 50 dB
AWB	Auto

PRODUCT SERIES

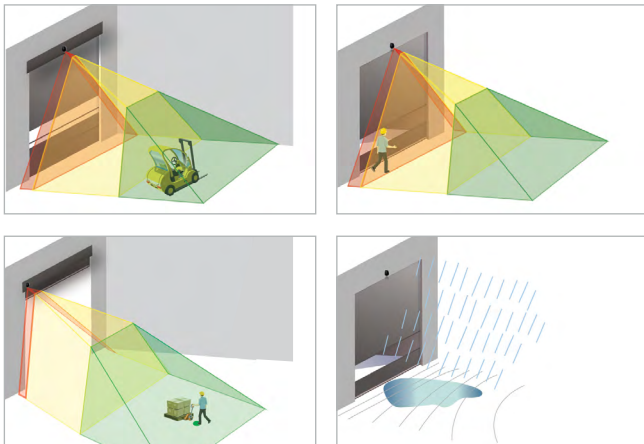
P/N	Description
10IXIODT1V	IXIO-DT1 with integrated video
10IXIOSPACER	Black, plastic spacer
10MINIBRACKET	Short heavy duty extension bracket - adjustable from 6 – 12"
10REMOTE	UNIVERSAL REMOTE CONTROL
10.1279	10IXIODT1V cover only and power supply harness
20.5308	8' Camera harness and power supply
20.5349	10' wire harness
20.5359	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



MOTION + PRESENCE SENSORS

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
Detection Mode	Motion & Presence
Max. Detection Field	Width: 1.2 x mounting height Depth: 1.2 x mounting height (adjustable depending on user settings)
Thickness of First Curtain	¾" per 3' of mounting height
Typ. Mounting Height	6' 6" – 19' 6"
Typ. Min. Object Size	6" @ 19' 6" (in proportion to object distance)
Test Body Dimensions	27 ½" (W) x 11 ¾" (H) x 7 ¾" (D)
Min. Reflectivity Factor	> 2 % (of floor and object) (measured at max. 19' 6" in safety field)
Emission Characteristics	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
Supply Voltage	12 – 24 VAC ±10% 12 – 30 VDC ±10% @ sensor terminal
Power Consumption	< 2.5 W (heating: off) < 15 W (heating: eco or auto)
Response Time	Typ. 100 ms (max. 500 ms)
Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
LED-Signal	2 tri-colored LEDs: Output status / Remote Control Response / Error Signals

TECHNICAL SPECIFICATIONS CONT'D

Output	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)
Dimensions	7 ¾" (W) x 6" (H) x 4" (D)
Material / Color	PC/ASA / Black
Rotation Angles on Bracket	45° to the right, 15° to the left (lockable)
Tilt Angles on Bracket	-10 – 5°
Degree of Protection	IP65
Temperature Range	-22 – 140 °F (-30 – 60 °C)
Vibrations	< 2 G
Cable Length	30'
Norm Conformity	IEC 61000-6-2, IEC 61000-6-3, IEC 60950-1, IEC 60825-1, ISO 13849-1 Pl "d"/ CAT2, IEC 62061 SIL 2, IEC 61496-1 ESPE Type 2

See next page for Product Series



LZR®-WIDESCAN

Motion, presence & safety sensor
for industrial doors

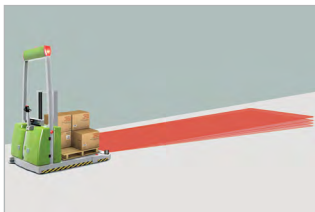
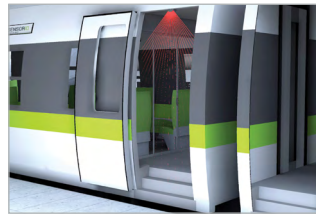
PRODUCT SERIES

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

PRODUCT SERIES CONT'D

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

MOTION + PRESENCE
SENSORS

**LZR®-U920 / U921**Compact raw data
LASER scanner**FEATURES & BENEFITS**

- 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

Technology	LASER scanner, Time-of-Flight measurement
Measurement Range	Max. 65 m (213') / 10 m (30') @ 2% remission factor / 30 m (98') @ 10% remission factor
Number of Points / Plane	Max. 274
Number of Planes	
LZR-U920	4
LZR-U921	1
Angular Resolution	Max. 0.3516°
Angular Coverage	Max. 96°
RPM	900 turns / min
Scanning Frequency	
LZR-U920	15 Hz
LZR-U921	60 Hz
Serial Communication	
Type	Asynchronous
Interface	RS 485
Communication mode	Half-duplex (U920,U921)
Data transmission speed	921600 max.
Topology	Point-to-point
Symbol coding	1 start bit, 1 stop bit, no parity bit
File type	8 bits
Remission Factor	> 2%
Emission Characteristics	
IR LASER	Wavelength 905 nm; maximum output pulse power 75 W (CLASS 1)
Peak Current at Power-on	1.8 A (max. 80 ms @ 35 VDC @ sensor side)
Supply Voltage	10 – 35 VDC @ sensor side
Power Consumption	< 5 W

TECHNICAL SPECIFICATIONS CONT'D

Cable Length	10'
LED-Signal	1 Blue LED: Power-on Status 1 Orange LED: Error Status 2 Bi-colored LEDs: Function Status
Dimensions	5" (W) × 2 ¾" (H) × 3 2/3" (D)
Material	PC / ASA
Color	Black
Degree of Protection	IP65
Temperature Range	-22 – 40 °F (-30 – 60 °C) if powered; 14 – 140 °F (-10 – 60 °C) if unpowered
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Expected Lifetime	Designed for a lifetime of min. 20 years
Norm Conformity	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
10LZR0920	Bidirectional four curtain sensor
10LZR0921	Bidirectional one curtain sensor
10PSMDR2024	DIN Rail Power Supply, 100 - 240 VAC / 24 VDC Power Supply
10PSVR5T	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

Technology	LASER scanner, Time-of-Flight measurement
Emission Characteristics IR LASER	Wavelength 905 nm; max. output pulse power 25 W; Class 1
Dimensions Standalone With Ceiling Accessory	8" (W) × 2 ½" (H) × 5 ½" (D) (elliptical) Visible height 1 ½", invisible height 2 ½"
Temperature Range	-13 – 131 °F if powered (storage temperature -31 – 158 °F)
Humidity	0 – 95% non-condensing
Power	External DC power or PoE (IEEE802.3af): power consumption <12 W
Data Transfer	Ethernet / 3G
Installation Height	79 – 216"
Counting Width Coverage	Equivalent to mounting height
Camera Resolution Frame Rate	160 × 120 pixels 15 fps (for counting proof purpose only – optional feature)
Protocols	(S)FTP, SFTP, HTTP(S)

PRODUCT SERIES

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



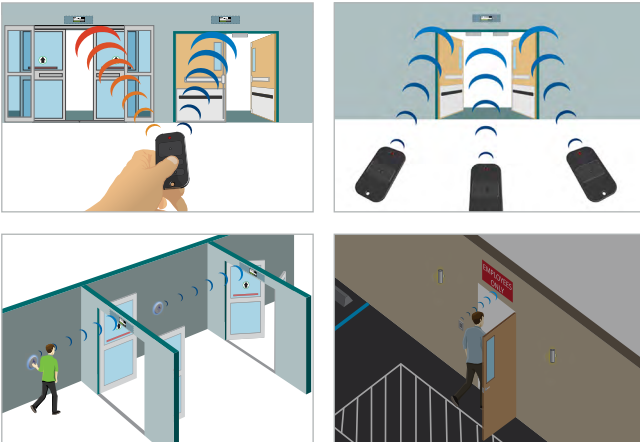
BR2-900

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

Supply Voltage	12 – 24 VAC / VDC ±10%
Current Consumption	45 mA DC 75 mA AC
Frequency	908 – 918 MHz (frequency hopping)
Emitted Radio Power	-25 dBm (TX)
Power Consumption	0.5 – 1.5 W
Programmable Transmitters Per Receiver	75 (unlimited for Universal Transmitter)
Temperature Rating	-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 1/8" (W) x 1" (H) x 2 1/8" (D)
Housing	ABS (white translucent)

PRODUCT SERIES

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

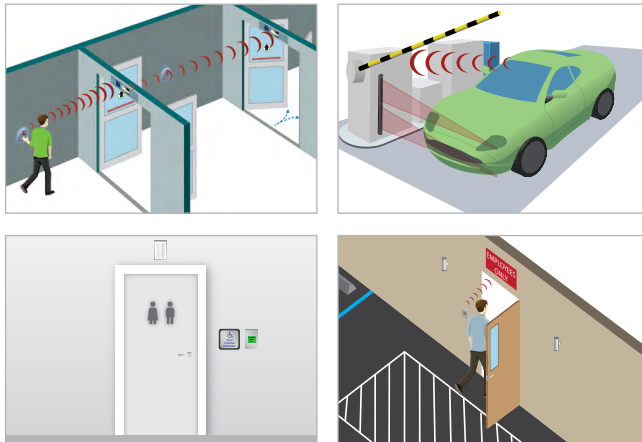


BR3-X

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

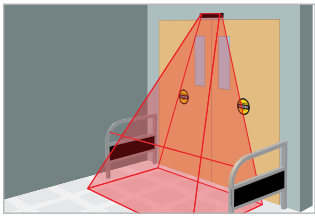
Supply Voltage	12 – 24 VAC / VDC ±10%
Power Consumption	30 – 130 mA; DRY Output
Temperature Range	
BR3-X	-15 – 150 °F*
	*If powered by AC voltage and using WET output to convert to DC voltage and current draw of device is greater than 0.9 A, the upper temperature range is 130 °F
Dimensions	5 1/2" (W) × 1" (H) × 2 1/2" (D)
Relay Hold Time	Up to 60 seconds per relay
Delay Between Relays	Up to 60 seconds per relay with 1/4, 1/2 and 3/4 second options
Housing Material	ABS Plastic
Input Specification	
Inputs 1, 2, 3, 4	DRY contact
WET Input	5 – 24 VAC / VDC ±10%
Contact Rating	
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
10BR3X	Programmable 3-relay logic module offering 13 functions, including day / night mode, normally locked and normally unlocked restroom modes See page 93-94 for RESTROOM KIT and page 92 for EMERGENCY ADD-ON KIT
10LE21	Lock out module for low energy doors that inhibits approach-side SUPERSCAN-T sensors on automatic doors when used manually
10MC25	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
15.0096	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

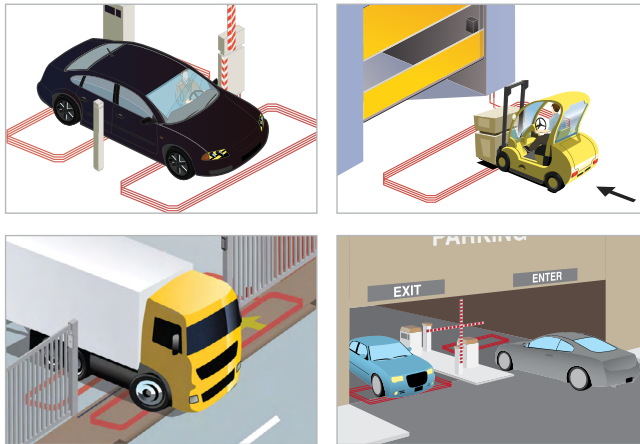
Power Supply	12 – 24 VAC / 15 – 24 VDC 4 MHz (Microprocessor)
Operating Frequency	4 MHz (Microprocessor)
Power Consumption	10 mA at rest, 50 mA max.
Output	2x SPST Relays
Max. Voltage - Relay Contact	60 VDC, 120 VAC
Max. Current - Relay Contacts (both)	2 ADC, 0.5 AAC

PRODUCT SERIES

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

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

PRODUCT SERIES

Frequency Steps	86CP11 (Standard 11-Pin Round)
Relay Outputs	2 (free potential change-over contact)
Max Contact Current	230 VAC
Max Contact Voltage	5 A (resistive)
Setup Time at Power On	
MATRIXD	8 s max by channel
MATRIXIIS	8 s max by channel
MATRIX-3S	1.6 s max by channel
MATRIX-3D	2.2 s max by channel
Norm Conformity	R&TTE: 1999 / 5 / EC; 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
Degree of Protection	IP40
Weight	7 oz
Dimensions	1.5" (W) x 3.0" (H) x 3.0" (D)

LOOP DETECTORS

See page 54 for Product Series

MATRIX FAMILY

UL Listed Loop Detectors



PRODUCT SERIES

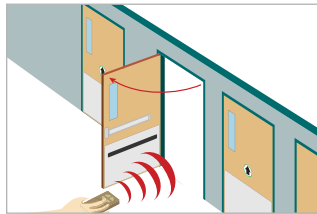
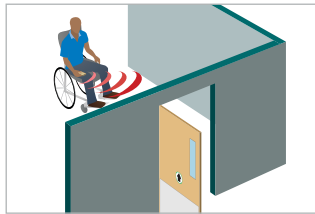
P/N	Description
10MATRIXD110	110 – 120 VAC, dual loop detector
10MATRIXD1224	110 – 120 VAC / VDC, dual loop detector
10MATRIXIIS110	110 – 120 VAC, single loop detector
10MATRIXIIS1224	12 – 24 VAC / VDC, single loop detector
10MATRIX-3-D	12 – 24 VAC / VDC, dual loop detector (Socket NOT included)

PRODUCT SERIES CONT'D

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

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

PRODUCT SERIES

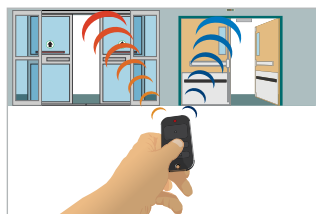
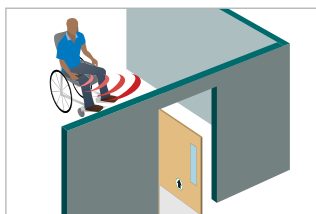
P/N	Description
10R300	300 MHz analog receiver
10T300HH	1-Button handheld transmitter (9-volt battery)
10T300HHDBL	2-Button handheld transmitter (9-volt battery)
10T300HH4	4-Button handheld transmitter (9-volt battery)
10T300KEYCHAIN	1-button keychain transmitter (12-volt battery)
10T300MINIPB	1-button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



433 MHZ FAMILY

433 MHz wireless transmitters and receivers

WIRELESS



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

Frequency	433 MHz
Radio Control Type	Digital
Emitted Radio Power	-28.7 dBm (transmitter)
Power Consumption	3 mA (transmitter); 30 mA (receiver)
Power	
Hardwired	1 9-volt or 3-volt battery
Handheld	1 3-volt battery
Input Voltage	12 – 24 VAC / VDC (receiver)
	1.0 A @ 30 VDC
Contact Rating	0.5 A @ 125 VAC
	0.3 A @ 60 VDC
Operating Temperature	14 – 131 °F (-10 – 55 °C)
Capacity	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)
Norm Conformity	CE, FCC, IC

PRODUCT SERIES

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

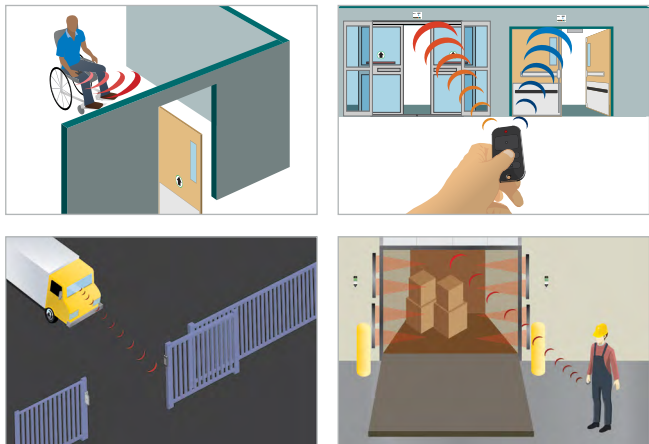


900 MHZ FAMILY

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

Frequency	908 – 918 MHz (frequency hopping)
Emitted Radio Power	-25 dBm (TX)
Power Consumption	
RD900	40 mA
TD900HHx	30 mA
TD900PB	30 mA
TD900TR	22 mA
TD900INDHHx	13 mA
Supply Voltage	12 – 24 VAC / VDC
Contact Rating	1.0 A @ 30 VDC 0.5 A @ 125 VAC 0.3 A @ 60 VDC
Temperature Range	14 – 131 °F (-10 – 55 °C)
Programmable Units Per Receiver	75
LEDs	
Red	Receiver learn
Blue	Relay activation
Tri-color	Signal strength
Dimensions	
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

Certification	FCC, IC
Norm Conformity	
TD900INDHHx	IP65

PRODUCT SERIES

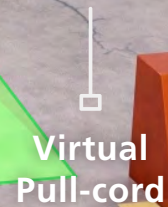
P/N	Description
10RD900	900 MHz receiver module
10TD900HH1	1-Button handheld transmitter (3-volt battery)
10TD900HH1U	Universal transmitter
10TD900HH2	2-Button handheld transmitter (3-volt battery)
10TD900HH3	3-Button handheld transmitter (3-volt battery)
10TD900HH4	4-Button handheld transmitter (3-volt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



Highly Accurate
LASER Technology



Motion, Presence &
Safety Detection



Virtual
Pull-cord



LZR[®] WIDESCAN

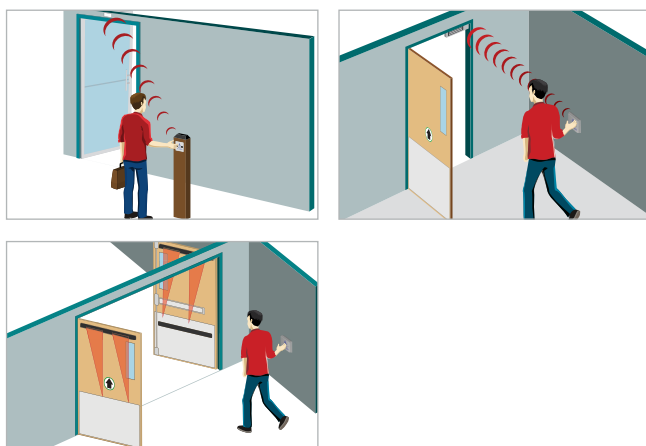
Unwanted door cycles, reckless forklift drivers and harsh environments impact the performance of industrial doors, facility operations and energy efficiency as a whole.

BEA's LZR[®]-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



PUSH PLATES

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

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 (See pages 55-57)

MOUNTING OPTIONS

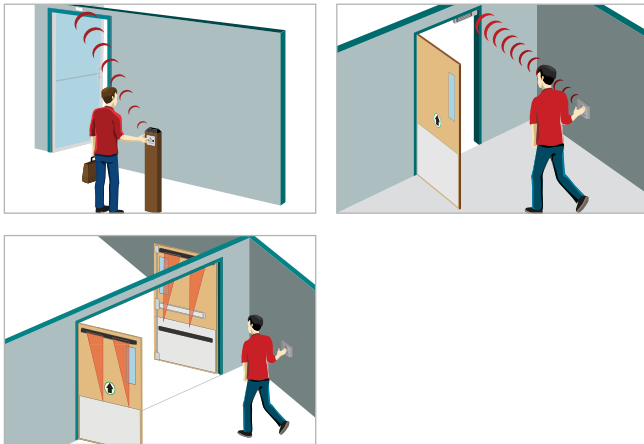
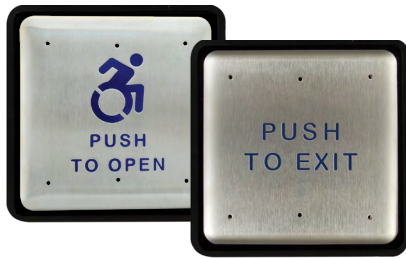
P/N	Description
10BOX45RNDISM	4.5" round, surface-mount (See page 97)
10BOX45RNDIFM	4.5" round, flush-mount box (See page 97)
10BOX45SQISM	4.5" square, surface-mount (See page 97)
10BOX45SQIFM	4.5" square, flush-mount box (See page 97)
10BOXDGISM	Double-gang, surface-mount box (See page 97)
10BOXDG4H	Double-gang, non-metallic box (See page 97)
10BOLLARD SERIES	Bollard (See page 96)

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

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

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 (See pages 55-57)

MOUNTING OPTIONS

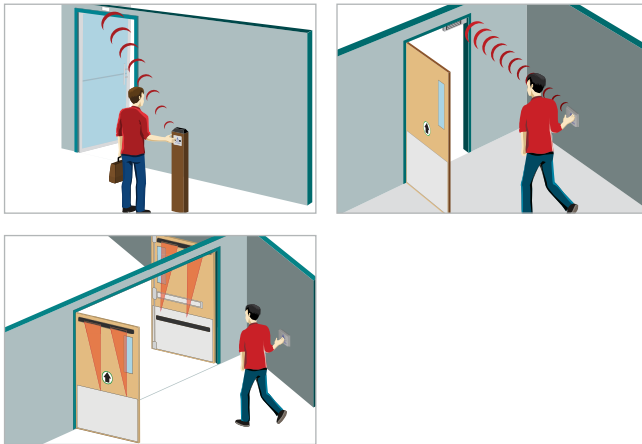
P/N	Description
10BOX475SQSM	4.75" square, surface-mount (See page 97)
10BOX475SQFM	4.75" square, flush-mount box (See page 97)
10BOX475SQSMEBA	4.75" square, easy battery access box (See page 97)
10BOXDGSM	Double-gang, surface-mount box (See page 97)
10BOXDG4H	Double-gang, non-metallic box (See page 97)
10PBRACKET(CA)	Surface-mount kit for round or square plates (See page 97)
10BOLLARD SERIES	Bollard (See page 96)

PRODUCT SERIES

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

6 INCH ROUND & SQUARE PUSH PLATES

Stainless steel
actuators



PUSH
PLATES

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

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 (See pages 55-57)

MOUNTING OPTIONS

P/N	Description
10BOX6RNDMSM	6" round, surface-mount (See page 97)
10BOX6RNDFM	6" round, flush-mount box (See page 97)
10ESCUTCHEON	6" escutcheon (See page 97)
10BOXDGSM	Double-gang surface-mount box (See page 97)
10BOXDG4H	Double-gang, non-metallic box (See page 97)
10PBBRACKET(CA)	Surface-mount kit for round or square plates (See page 97)

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

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

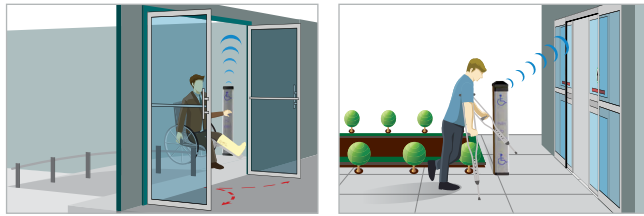
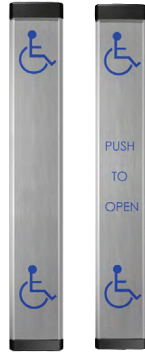
Faceplate Material	16 gauge, 304 2B Stainless Steel
Backplate Material	1/8 inch thick, Aluminum
Mounting Screws	Stainless Steel, 6-32 x 1" & 8-32 x 1" Allen Head Size: 5/64
Cherry Switch	Single-pole, 15 A, COM / NO / NC, UL Recognized
Compatible Wireless Frequencies	900, 433 or 300 MHz (See pages 55-57)
Faceplate Dimensions	1.50" (W) x 4.75" (H) x 0.62" (D)

MOUNTING OPTIONS

P/N	Description
10BOXJAMBSM	Jamb, surface-mount box (See page 97)
10BOXJAMBFM	Jamb, flush-mount box (See page 97)
10BOXJAMBST	4.5" x 1.75" Jamb box (hardwired only) (See page 97)

PRODUCT SERIES

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



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 x 6 inches (216 square inches)

PUSH PLATES

TECHNICAL SPECIFICATIONS

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

PRODUCT SERIES

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

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



PANTHER PUSH PLATES

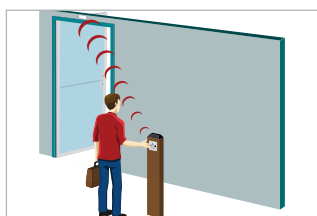
Push plates with integrated wireless technology



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

PUSH
PLATES



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

IP65
FCC IC Part 15 Approved

PRODUCT SERIES

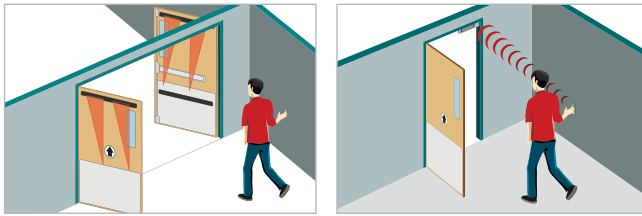
10EMR475	4.75" round - 433 MHz "Push To Open" text only
10EMR475-900	4.75" round - 900 MHz "Push To Open" text only
10RD433	433 MHz receiver
10RD433EH	Extended hold time receiver
10RD900	900 MHz receiver

PRODUCT SERIES CONT'D

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

SINGLE GANG PUSH PLATES

Stainless steel
actuators



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 (See pages 55-57)

MOUNTING OPTIONS

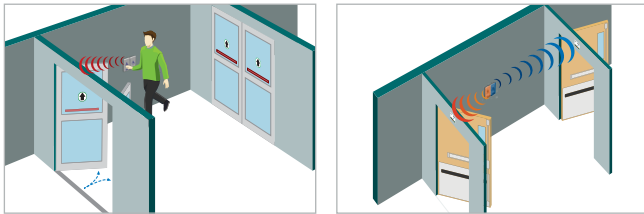
P/N	Description
10BOX24SGSM	Single-gang, surface-mount box (See page 97)
10BOLLARD	Bollard (See page 96)

PRODUCT SERIES

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

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 (See pages 55-57)
Faceplate Dimensions	4.75" (W) x 4.75" (H) x 0.62" (D)

PRODUCT SERIES

P/N	Description
10PBDGP1	Stainless steel dual Push Plate for vestibule includes: 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>

MOUNTING OPTIONS

P/N	Description
10BOX475SQSM	4.75" square, surface-mount box (adapter ring 50.5016 required) (See page 97)
10BOX475SQSMEBA	4.75" square, easy battery access box (adapter ring 50.5016 required) (See page 97)
10BOX476SQFM	4.75" square, flush-mount box (adapter ring 50.5016 required) (See page 97)
10BOXDGSM	Double-gang, surface-mount box (adapter ring 50.5016 required) (See page 97)
10BOXDG4H	Double-gang, non-metallic box (adapter ring 50.5016 required) (See page 97)
10BOLLARD SERIES	Bollard (See page 96)
50.5016	Adapter ring



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

TOUCHLESS SOLUTIONS

TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Radiated Frequency	24.125 GHz
Radiated Power Density	5 mW / cm ²
Detection Mode	Motion (bidirectional)
Detection Range	4 – 24" (adjustable)
Output	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)
Output Hold Time	0.5 s (in pulsed mode)
Mains Frequency	50 – 60 Hz
Supply Voltage	12 – 24 VAC ±10% 12 – 24 VDC 30% / -10%
Power Consumption	< 1.5 W
Material	ASA, Nylon, PC
Cable Type	Standard cable up to 16 AWG - 1.5 mm ²
Temperature Range	-4 – 131 °F (-20 – 5 °C)
Norm Conformity	EMC: 2004 / 108 / EC; FCC: G9B-MS08; IC: 4680A-MS08

MOUNTING OPTIONS

10BOX24SGSM	Standard single gang surface mount box (2.75" x 4.5")
10BOXDGSM	Standard double gang surface mount box (4.5" x 4.5")

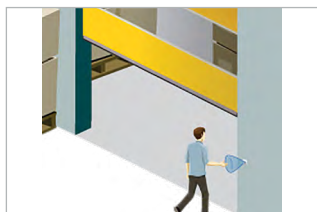
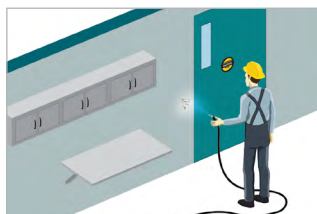
PRODUCT SERIES

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



MS09

NEMA 4 rated,
microwave touchless actuator



FEATURES & BENEFITS

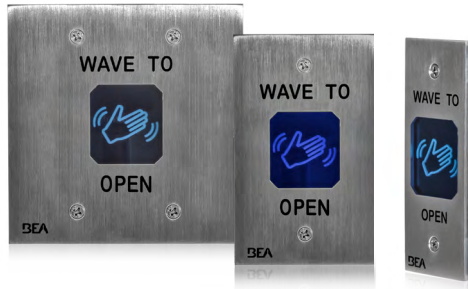
- NEMA 4 / IP65 enclosure capable of use in industrial and extreme environments, as well as washdown facilities
- User defined detection zone from 4 to 24 inches (pulse or toggle)
- Can be used in a variety of outdoor and off-door applications
- External mounting boxes are not required

TECHNICAL SPECIFICATIONS

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

PRODUCT SERIES

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



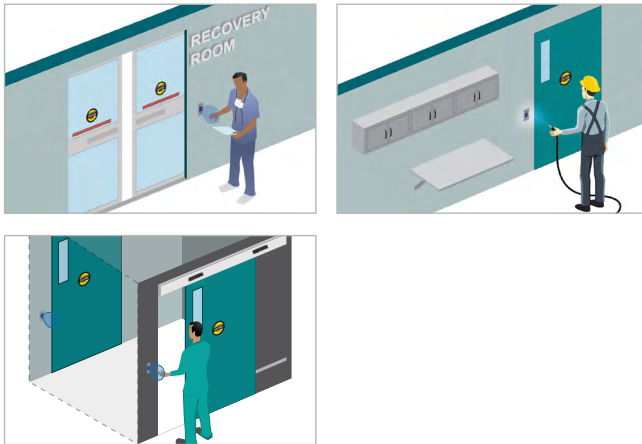
MS11

Adjustable range, stainless steel microwave touchless actuator

FEATURES & BENEFITS

- 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

TOUCHLESS SOLUTIONS



TECHNICAL SPECIFICATIONS

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

PRODUCT SERIES

P/N	Description
10MS11D	Stainless steel double gang
10MS11J	Stainless steel jamb style
10MS11S	Stainless steel single gang
10RD900	900 MHZ receiver module
10TD900TR	900 MHZ retrofit transmitter

MOUNTING OPTIONS

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



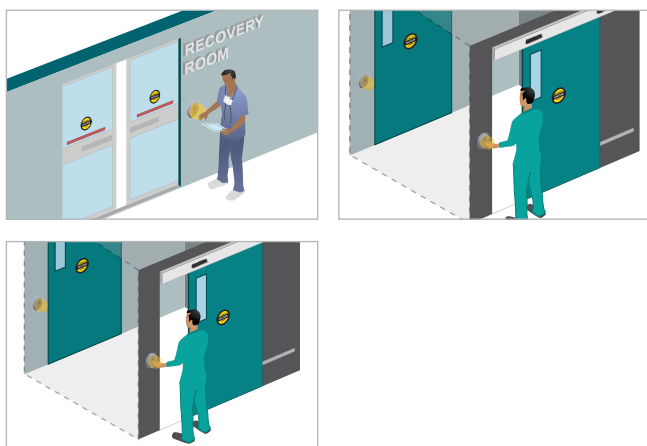
MS21H

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 detection zones
- IP65 rated enclosure
- Compatible with all automatic door control makes and models



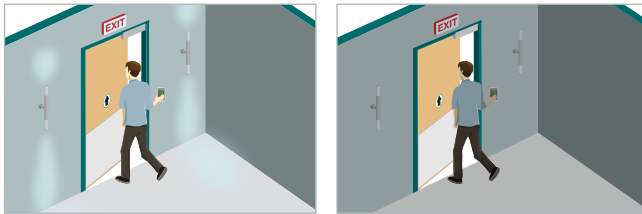
TOUCHLESS
SOLUTIONS

TECHNICAL SPECIFICATIONS

Technology	Capacitance
Detection Mode	Proximity
Supply Voltage	12 – 24 VAC / VDC
Current Consumption	37 mA (typical)
Temperature Range	-20 – 120 °F
Degree of Protection	IP65
Detection Zone	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
Relay	1 Form A solid-state relay; 0.4 A, 60 VAC / VDC (Max.)
Cable Length	6" (5-conductor)
Material	Stainless Steel (faceplate) Clear Polycarbonate (Mounting Ring, Backplate and Enclosure)

PRODUCT SERIES

P/N	Description
10MS21HR1	6" round, text and logo
10MS21HR	6" round, text only
10MS21HRL	6" round, logo only
10MS21HS1	4.75" square, text and logo
10MS21HS	4.75" square, text only
10MS21HSL	4.75" square, logo only
10RD900	900 MHz receiver module
10TD900TR	900 MHz retrofit transmitter
20.2007	Isolation module harness



ACCESS CONTROL PUSH BUTTON

Illuminated,
push to exit button

FEATURES & BENEFITS

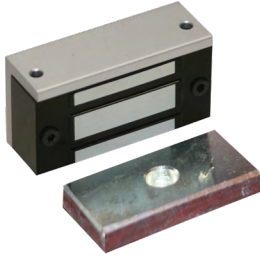
- Easily replaced 12 to 24 VAC / VDC light bulb, reducing whole-product replacement
- Stainless steel faceplate
- Vandal / tamper resistant design
- Tested to perform more than one million operations

TECHNICAL SPECIFICATIONS

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

PRODUCT SERIES

P/N	Description
10ACPBS51	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**

10MAGLIFELOCK9 Single / cabinet lock, 12 / 24 VDC - 80 lb



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

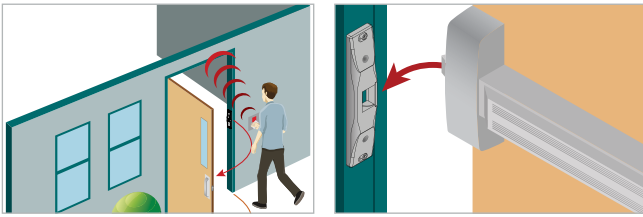
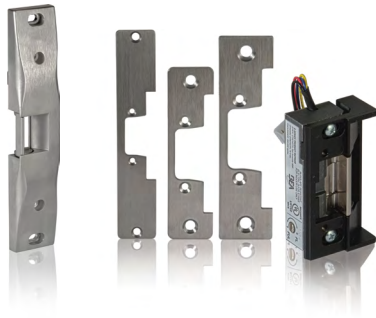
Housing Dimensions	10.8125" (W) × 2.875" (H) × 2.215" (D)
Armature Dimensions	7.4375" (W) × 2.375" (H) × 0.625" (D)
Voltage / Tolerance	12 – 24 VDC; ±10%
Max. Power / Current Draw	
Maglock & Sounder	0.49 A / 12 VDC 0.24 A / 24 VDC
Low Voltage Supply Detection / Alarm	< 8 V
Holding Force	Up to 1200 lbs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

PRODUCT SERIES

P/N	Description
10MAGDE1	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 UL listed MAGLOCKS require a UL listed power supply
10CYLINDERKA	1.125" mortise cylinder, Schlage C Keyway, keyed alike
10CYLINDERKD	1.125" mortise cylinder, Schlage C Keyway, keyed differently
10PS12-24	UL / ULC Listed power supply
10PS12-24D	UL / ULC Listed power supply, backup circuit (battery not included)
50.0336	Signage for 10MAGDE1 "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

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

10STRIKECU

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

PRODUCT SERIES

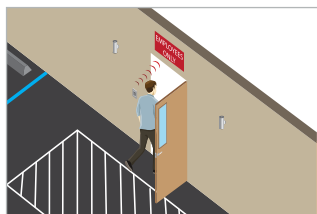
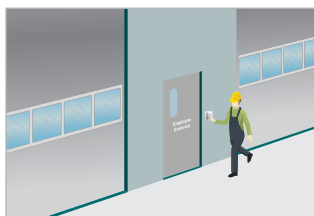
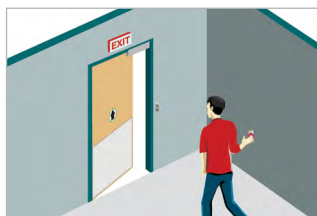
P/N	Description
10STRIKECU	UL / ULC Listed UNIVERSAL CYLINDRICAL ELECTRIC STRIKE with three faceplates for aluminum, hollow metal and wood frame installations
10STRIKERE	UL / ULC Listed surface mounted electric strike for Rim Exit Device

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



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

Technology	Mechanical Key Access
Faceplate Dimensions	
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)
Visual Style	Combo-plate: Handicap symbol and "Push To Open" text
Materials	Aluminum wall plate with tamper-resistant screws
Switch Rating	6A @ 125 VAC or 3A @ 250 VAC
Mortise Cylinder	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") *Compatible with the 10COMBOPLATE only

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

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

PRODUCT SERIES

P/N	Description
10PIEZO241	Piezoelectric push button, single gang Push To Exit text
10BOX24SGSM	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

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

MOUNTING OPTIONS

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

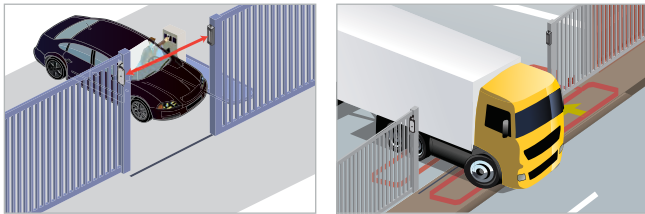
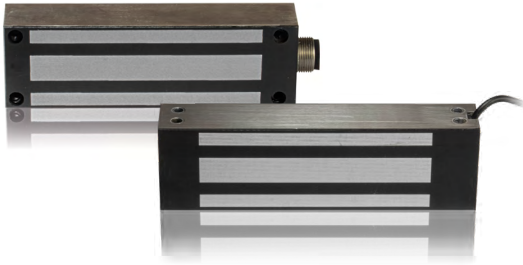
PRODUCT SERIES

P/N	Description
10ACPBDA1	2" Jamb, Red button, text only
10ACPBDA2	2" Single, Red button, text only
10ACPBDA3	1 5/8" Jamb, Red button, text only
10ACPBDA4	1 5/8" Single, Red button, text only
10ACPBDA5	2" Jamb, Blue button, logo only
10ACPBDA6	2" Single, Blue button, logo only
10ACPBDA7	1 5/8" Jamb, Blue button, logo only
10ACPBDA8	1 5/8" Single, Blue button, logo only
10ACPBDA9	2" Jamb, Green button, Push to Exit text
10ACPBDA10	2" Single, Green button, Push to Exit text
10ACPBDA11	1 5/8" Jamb, Green button, Push to Exit text
10ACPBDA12	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 3/4 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

Door Configuration	Sliding gate, front mount
Holding Force	1200 lb
Input Voltage	12 / 24 VDC (UL Listed power supply recommended)
Current Draw	500 mA @ 12 VDC, 250 mA @ 24 VDC
Relay Switch	250 mA @ 12 VDC, 125 mA @ 24 VDC
Dimensions	8.75" (W) x 2.50" (H) x 1.625" (D)
Material	Stainless steel
Sensor	Lock status sensor with relay output
Cable Specifications	24 AWG 7-conductor cable, 3.5'
Norm Conformity	UL and CUL, ANSI 156.10, NEMA 4 / IP65
Conduit Fitting (10GL1200R ONLY)	3/4" NPS conduit fitting 14 threads per inch

10GL1200SR

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

TECHNICAL SPECIFICATIONS CONT'D

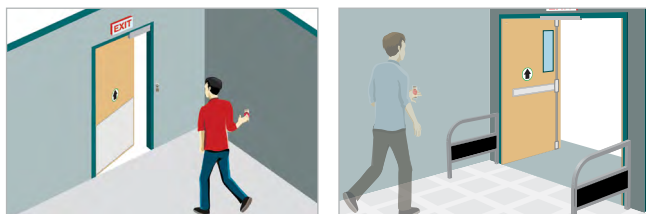
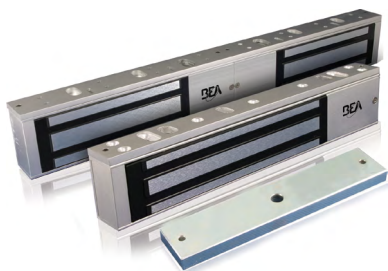
Material	Stainless steel
Sensor	Lock status sensor with relay output
Cable Specifications	24 AWG 7-conductor cable, 9.5'
Norm Conformity	UL and CUL, ANSI 156.10, NEMA 4 / IP65

PRODUCT SERIES

P/N	Description
10GL1200R	UL / ULC Listed, 12 / 24 VDC front mounted - 1200 lb
10GL1200SR	UL / ULC Listed, 12 / 24 VDC side mounted - 1200 lb
10LZBRGATE1200	(1) "L" Bracket (1) "Z" Bracket
10PS12-24	UL / ULC Listed power supply
10PS12-24D	UL / ULC Listed power supply, 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

Door Configuration	Single, surface mount
Holding Force	1200 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505 mA @ 12 VDC 260 mA @ 24 VDC
Dimensions	10.47" (W) × 2.87" (H) × 1.58" (D)
Material	Anodized Aluminum housing
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor (NO or NC outputs)
Output Relay	Up to 1 A @ 24 VDC
10MAGLOCK3UL	
Door Configuration	Single, surface mount
Holding Force	600 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505 mA @ 12 VDC 260 mA @ 24 VDC
Dimensions	9.84" (W) × 1.65" (H) × 1.02" (D)
Material	Anodized Aluminum housing
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor (NO or NC outputs)
Output Relay	Up to 1 A @ 24 VDC

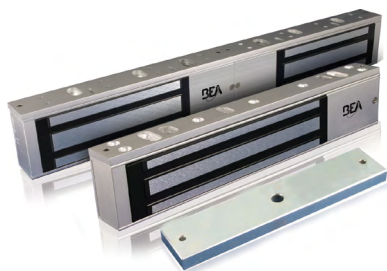
TECHNICAL SPECIFICATIONS CONT'D

Door Configuration	Double, surface mount
Holding Force	1200 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505*2 mA @ 12 VDC 260*2 mA @ 24 VDC
Dimensions	20.94" (W) × 2.87" (H) × 1.58" (D)
Material	Anodized Aluminum housing
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor (NO or NC outputs)
Output Relay	Up to 1 A @ 24 VDC
10MAGLOCK6UL	
Door Configuration	Double, surface mount
Holding Force	600 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505*2 mA @ 12 VDC 260*2 mA @ 24 VDC
Dimensions	19.76" (W) × 1.65" (H) × 1.02" (D)
Material	Anodized Aluminum housing
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor (NO or NC outputs)
Output Relay	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
10MAGLOCK1UL	Single 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) bond status relay 12 / 24 VDC
10MAGLOCK3UL	Single 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) bond status relay 12 / 24 VDC
10PS12-24	UL / ULC Listed power supply
10MAGLOCK5UL	Double 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) bond status relays 12 / 24 VDC
10MAGLOCK6UL	Double 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) bond status relays 12 / 24 VDC
10PS12-24D	UL / ULC Listed power supply, backup circuit (battery not included)

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" x 0.75" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER34UL	0.75" x 0.75" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER58UL	0.65" x 0.75" 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

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



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

Door Configuration	Single, surface mount
Holding Force	1200 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505 mA @ 12 VDC 260 mA @ 24 VDC
Dimensions	10.47" (W) x 2.87" (H) x 1.58" (D)
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor, Door Status Sensor
Output Relay	Up to 1 A @ 24 VDC

10MAGLOCK3ULDS

Door Configuration	Single, surface mount
Holding Force	600 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505 mA @ 12 VDC 260 mA @ 24 VDC
Dimensions	9.84" (W) x 1.65" (H) x 1.02" (D)
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor, Door Status Sensor
Output Relay	Up to 1 A @ 24 VDC

TECHNICAL SPECIFICATIONS CONT'D

10MAGLOCK5ULDS

Door Configuration	Double, surface mount
Holding Force	1200 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505*2 mA @ 12 VDC 260*2 mA @ 24 VDC
Dimensions	20.94" (W) x 2.87" (H) x 1.58" (D)
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor, Door Status Sensor
Output Relay	Up to 1 A @ 24 VDC

10MAGLOCK6ULDS

Door Configuration	Double, surface mount
Holding Force	600 lb
Input Voltage	12 / 24 VDC (UL Listed power supply required)
Power Consumption	505*2 mA @ 12 VDC 260*2 mA @ 24 VDC
Dimensions	19.76" (W) x 1.65" (H) x 1.02" (D)
Relock Time Delay	0 – 90 s
Sensor	Lock Status Sensor, Door Status Sensor
Output Relay	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



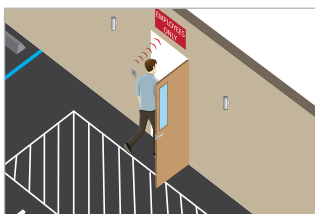
PRODUCT SERIES

P/N	Description
10MAGLOCK1ULDS	Single 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) Door status sensor 12 / 24 VDC
10MAGLOCK3ULDS	Single 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (1) Door status sensor 12 / 24 VDC
10MAGLOCK5ULDS	Double 1200 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) Door status sensors 12 / 24 VDC
10MAGLOCK6ULDS	Double 600 lb UL / ULC listed, LED status, 0 – 90 second hold open timer (relock), (2) Door status sensors 12 / 24 VDC
50.0340	Cover plate ONLY with DS Switch for the 10MAGLOCK1ULDS
50.0341	Cover plate ONLY with DS Switch for the 10MAGLOCK3ULDS
50.0342	Cover plate ONLY with DS Switch for the 10MAGLOCK5ULDS
50.0343	Cover plate ONLY with DS Switch for the 10MAGLOCK6ULDS
10PS12-24	UL / ULC Listed power supply
10PS12-24D	UL / ULC Listed power supply, backup circuit (battery not included)

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" x 0.75" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER34UL	0.75" x 0.75" horizontal right filler plate used to fill or extend door stops for single locks only
10FILLER58UL	0.65" x 0.75" 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

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

Supply Voltage	12 – 24 VAC / VDC (DO NOT EXCEED 30 VDC or 24 VAC)
Standby Current	≤ 30 mA
Working Current	≤ 160 mA
Max User Codes	1010 Zone 1 1000 users Zone 2 10 users)
Relock Time	0 – 99 s
Output	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)
Cable Length	3'
Operating Temperature	-22 – 158 °F
Operating Humidity	0 – 95% (non-condensing)
IP Rating	IP66 (waterproof and dust proof)
Dimensions	10KEYPADU 3" (W) × 4 7/10" (H) × 9/10" (D) 10KEYPADUSL 1 7/10" (W) × 5 9/10" (H) × 19/20" (D)
Certifications	CE, RoHS
Backlight	Blue keypad illumination

PRODUCT SERIES

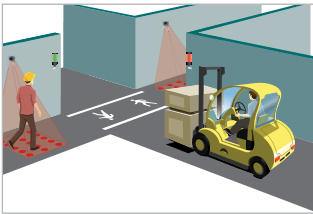
P/N	Description
10KEYPADU	UNIVERSAL KEYPAD for indoor and outdoor use
10KEYPADUSL	UNIVERSAL SLIM-LINE KEYPAD for indoor and outdoor use

MOUNTING OPTION

P/N	Description
10ABOXSGSMS	Single gang angled mounting box (2 3/4" × 4 1/2")

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

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

PRODUCT SERIES

P/N	Description
10LIGHTC-G	Green LED column light for signaling applications
10LIGHTC-Y	Yellow LED column light for signaling applications
10LIGHTC-R	Red LED column light for signaling applications
10LIGHTBRACKET	LED signal light bracket
10PS12-24	UL / ULC Listed power supply

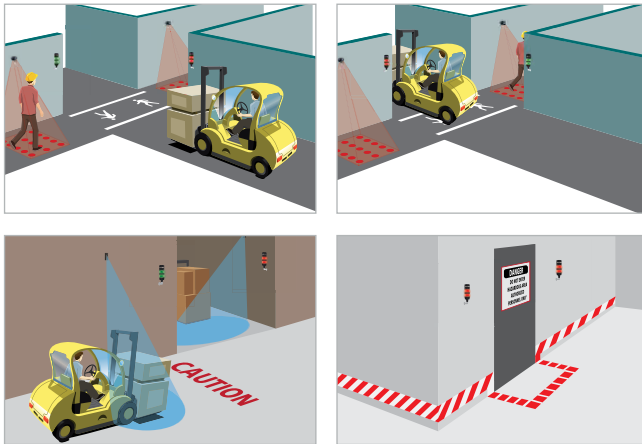


LED SIGNAL LIGHTS, MODULAR

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

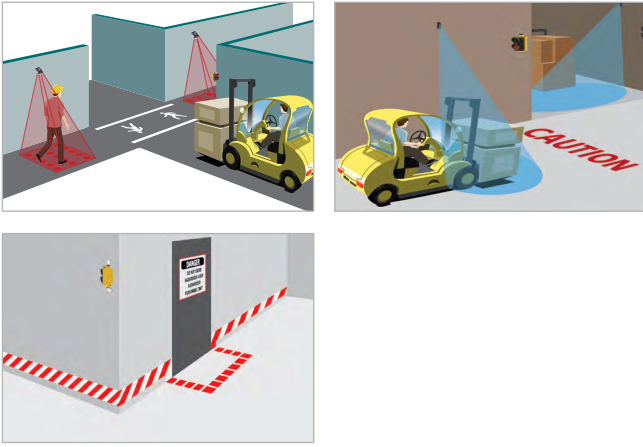
Supply Voltage	12 – 30 VDC
Indicator Response Time	Off Response 150 μ s @ 12 – 30 VDC On Response 180 mSec @ 12 VDC; 50 mSec @ 30 VDC
LED Colors	Red, Green, Yellow
Light Flash Rates	1.5 Hz \pm 10% and 3 Hz \pm 10%
Audible Alarm	2.6 KHz \pm 250 Hz oscillation frequency; maximum intensity 92 dB @ 39.6"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

PRODUCT SERIES

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

LED SIGNAL LIGHTS, TRAFFIC

Rugged, cost-effective signals for warning indication systems



FEATURES & BENEFITS

- Single light model rated IP67; double light model rated IP65
- Preassembled 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

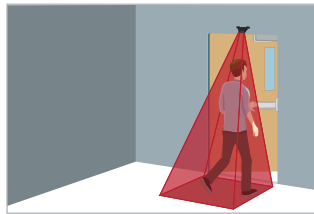
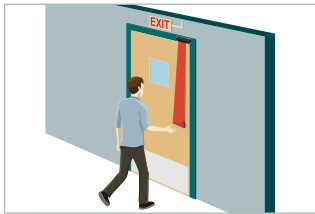
TECHNICAL SPECIFICATIONS

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

PRODUCT SERIES

P/N	Description
10LIGHTS-G	Traffic LED signal light - Green
10LIGHTS-R	Traffic LED signal light - Red
10LIGHTD-RG	Traffic LED signal light - Red & Green
10PS12-24	UL / ULC Listed power supply

INDICATORS



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
10ACP6	Single Door Package 3 utilizes our R2E-100 with focused active infrared presence detection pattern for secure request-to-exit and a 600 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK3UL - 600 lb UL Listed Maglock - pg 79-80
	(1) 10R2E100 - Request-to-Exit sensor - pg 35
	(1) 10ACPBSS1 - Push-to-Exit button - pg 71
10ACP6F	Single Door Package 4 utilizes our FLY with adjustable passive infrared presence detection pattern for secure request-to-exit and a 600 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK3UL - 600 lb UL Listed Maglock - pg 79-80
	(1) 10FLYKITB - Request-to-Exit sensor - pg 18
	(1) 10ACPBSS1 - Push-to-Exit button - pg 71
(1) 10BR3-X - Programmable 3 relay logic module - pg 51	

PRODUCT SERIES CONT'D

P/N	Description
10ACP12	Single Door Package 1 utilizes our R2E-100 with focused active infrared presence detection pattern for secure request-to-exit and a 1200 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK1UL - 1200 lb UL Listed Maglock - pg 79-80
	(1) 10R2E100 - Request-to-Exit sensor - pg 35
	(1) 10ACPBSS1 - Push-to-Exit button - pg 71
10ACP12F	Single Door Package 2 utilizes our FLY with adjustable passive infrared presence detection pattern for secure request-to-exit and a 1200 lb MAGLOCK
	(1) 10PS12-24 - Power Supply - UL, Filtered & Regulated
	(1) 10MAGLOCK1UL - 1200 lb UL Listed Maglock - pg 79-80
	(1) 10FLYKITB - Request-to-Exit sensor - pg 18
	(1) 10ACPBSS1 - Push-to-Exit button - pg 71
(1) 10BR3-X - Programmable 3 relay logic module - pg 51	



LOW ENERGY REACTIVATION PACKAGES

All-in-one reactivation packages for low energy doors



FEATURES & BENEFITS

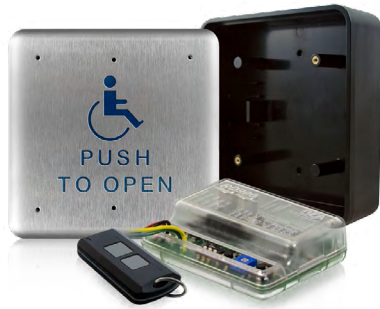
- Convenient solution that includes secondary reactivation and enhanced door logic
- LE21 or BR3-X logic disables SUPERSCAN-T until the door is activated by a knowing act device
- Door position switch monitors state of door to enable / disable sensors

PRODUCT SERIES

PRODUCT SERIES CONT'D

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

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

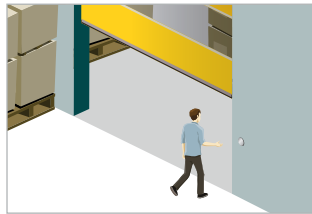
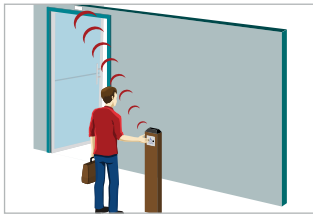


PUSH PLATE PACKAGES

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

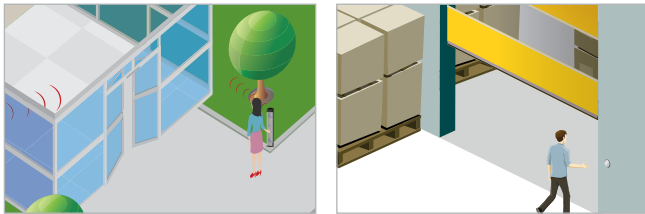
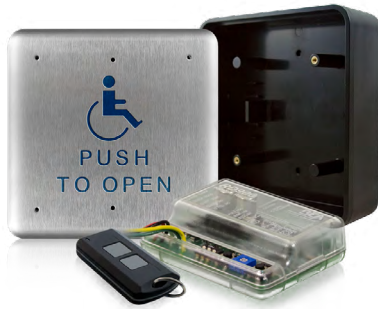
PRODUCT SERIES CONT'D

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

PACKAGES

PUSH PLATE PACKAGES (SECURITY & ACCESS SPECIFIC)

Convenient packages built with BEA's most popular push plates



FEATURES & BENEFITS

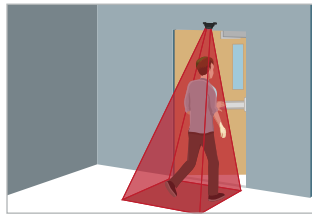
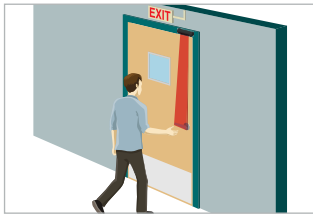
- Choose from these convenient one-box solutions that include our most popular mounting option, push plate artwork and wireless transmitters and receivers
- Packages available for vestibule and other common knowing act applications

PRODUCT SERIES

PRODUCT SERIES CONT'D

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

P/N	Description
PUSH PLATE 475S-HW	(2) 10PBS1 - square push plates - pg 60 (2) 10BOX475SQSM - surface mount boxes HARDWIRED SOLUTION ONLY
PUSH PLATE 6R-433	(2) 10PBR1 - round push plates - pg 61 (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg 56
PUSH PLATE 6R-900	(2) 10PBR1 - round push plates - pg 61 (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg 57
PUSH PLATE 6R-BR2900	(2) 10PBR1 - round push plates - pg 61 (2) 10BOX6RNDMSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter - pg 57 (1) 10BR2-900 - 2-relay logic module - pg 50
PUSH PLATE JAMB-433	(2) 10PBJ1 - jamb style push plates - pg 62 (2) 10BOXJAMBMSM - surface mount boxes - pg 58 (2) 10TD433PB9V - 9-volt 433 MHz transmitter (1) 10RD433 - 433 MHz receiver - pg 56
PUSH PLATE JAMB-900	(2) 10PBJ1 - jamb style push plates - pg 62 (2) 10BOXJAMBMSM - surface mount boxes (2) 10TD900PB - 900 MHz transmitter (1) 10RD900 - 900 MHz receiver - pg 57
VESTIBULE PACKAGE 433	(1) 10PBDGP1 - vestibule plate - pg 66 (1) 10BOX475SQSM - surface mounting box (2) PBS1 with matching mounting boxes - pg 60 (4) 10TD433PB9V - 9-volt 433 MHz transmitter (2) 10RD433 receivers - pg 56
VESTIBULE PACKAGE 900	(1) 10PBDGP1 - vestibule plate - pg 66 (1) 10BOX475SQSM - surface mounting box (2) PBS1 with matching mounting boxes - pg 60 (4) 10TD900PB - 900 MHz transmitters (2) 10RD900 receivers - pg 57



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

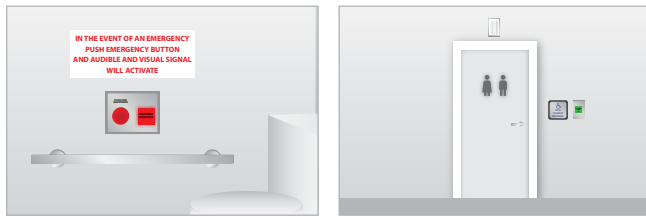
P/N	Description
10ACP12DS	(1) 10R2E100 - UL / ULC Listed, active infrared request-to-exit detector specifically designed for access control applications - pg 35
	(1) 10PS12-24 - UL, filtered & regulated power supply
	(1) 10ACPBSS1 - Push-to-Exit button - pg 71
	(1) 10BR3-X - Programmable 3-relay logic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

PRODUCT SERIES CONT'D

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

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

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

10EBUTTONCOMBO

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

TECHNICAL SPECIFICATIONS CONT'D

70.5675

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

PRODUCT SERIES

P/N	Description
	Emergency Add-On Kit includes:
10EMERGENCYKIT	(1) 70.5675, (1) 10EBUTTONCOMBO and (1) 10ARS
10ARS	"Assistance Required" Signal
70.5675	Emergency signage
10EBUTTONCOMBO	"Push for Emergency Assistance" Double Gang Button + Indicator
	Restroom Kit includes:
10RESTROOMKIT	(1) 10PTLBUTTON, (1) 10LEDSOUNDER, (1) 10SWITCH1084 and (1) 10BR3X
1012VAC	12 VAC (20 VA) transformer
1024VAC	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 ±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) × 4.52" (H) × 0.75" (D)

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"

PACKAGES

See page [94](#) for Product Series

SINGLE OCCUPANCY RESTROOM RESTROOM KIT

For single occupancy normally locked / unlocked restrooms

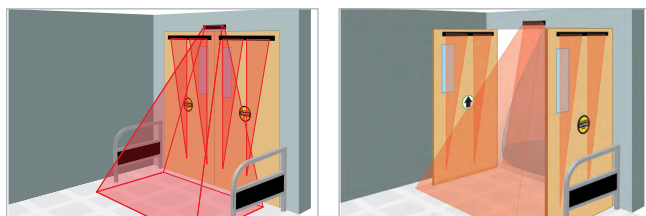


PRODUCT SERIES

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

PRODUCT SERIES CONT'D

P/N	Description
10STRIKECU	UNIVERSAL CYLINDRICAL electric strike
10STRIKERE	RIM EXIT electric strike
10SWITCH1084	Door position switch
10PS12-24	UL / ULC Listed power supply
1012VAC	12 VAC (20 VA) transformer
1024VAC	24 VAC (40 VA) transformer



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 11
	(1) 10BODYGUARDT - Header mounted safety sensor - pg 17
	(2) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg 36 , 38
	(1) 10BODYMNT - Spacer for BODYGUARD-T
PARALLAX II	(1) 10SSQD - Quick Disconnect for SUPERSCAN-T
	(1) 1024VAC - Power Supply
	(1) 10EAGLE - Overhead activation sensor - pg 11
	(1) 10BODYGUARDT - Header mounted safety sensor - pg 17
	(4) 10SSTII - SUPERSCAN-T II door mounted safety sensor - pg 36 , 38
(1) 10BODYMNT - Spacer for BODYGUARD-T	
(2) 10SSQD - Quick Disconnect for SUPERSCAN-T	
(1) 1024VAC - Power Supply	

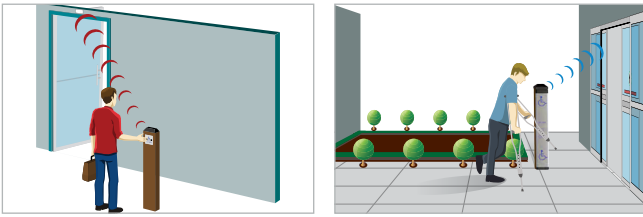
PRODUCT SERIES CONT'D

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



FEATURES & BENEFITS

- Compatible with most push plate shapes and sizes, bollard provides a mounting surface for ADA compliant actuators
- Can be mounted either on existing concrete or in newly poured concrete
- Available in silver, bronze and black and with or without hole
- UV-resistant ABS plastic cap allows for transmission when using wireless transmitters

TECHNICAL SPECIFICATIONS

Dimensions (with cap attached) 6.25" (W) × 41.5" (H) × 4.25" (D)

Material
 Post: Powder-Coated (Inside and Out) Carbon Steel
 Cap: UV-Resistant ABS Plastic
 Bracket: Stainless Steel

Push Plate Options
 4.5" Square,
 4.75" Square,
 4.75" Square Panther,
 4.5" Round,
 Dual Vestibule and
 LPR36 High-low actuator

Weight 35 lbs (16 kg)

Color Black, Bronze, Silver

Hardware Included
 Post: Screws (4)
 Cap: Screws (3) and Finishing Washers (3)
 Bracket: Expansion Anchors (4), Lock Washers (4) and Nuts (4)

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)

PRODUCT SERIES

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



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) x 5.41" (H) x 1.97" (D)

Material

Box ABS Plastic
 Locking Screw Stainless Steel

PRODUCT SERIES

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

INSTALLATION ACCESSORIES

BEA's line of supplemental door accessories



10DOORSWITCH



10DPG50



10RELXXX



10REMOTE



10SPOTFINDER



10SWITCH75



10SWITCH1076



10SWITCH1084



10SWITCH1277



30.5580



50.5283

PRODUCT SERIES

P/N	Description
10DOORSWITCH	On / Off / Hold Open Switch
10DPG50	Door pressure gauge, 50 lbs
10REL12VAC	DPDT isolation relay 12 VAC only
10REL12VDC	DPDT isolation relay 12 VDC only
10REL24V	DPDT isolation relay 24 VAC only
10REL24VDC	DPDT isolation relay 24 VDC only
10REMOTE	UNIVERSAL REMOTE CONTROL
10SPOTFINDER	Improved active infrared SPOTFINDER that increases accuracy thereby reducing installation and maintenance time
10SWITCH75	Magnetic door position switch 0.75" gap, NO / NC, SPDT, 0.44" diameter, flush mount
10SWITCH1076	Magnetic door position switch 0.75 to 2" gap, NO / NC, SPDT, 0.75" diameter, flush mount
10SWITCH1084	Magnetic door position switch 2" gap, NO, SPDT, surface mount with terminal strip
10SWITCH1277	Magnetic door position switch 0.50" gap, NO / NC, SPDT, 0.375" diameter, flush mount
30.5580	Magnetic door position switch 0.75" gap, NO, SPST, 0.375" diameter, flush mount
50.5283	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
20.5316	14' camera harness and power supply



POWER SUPPLIES AND TRANSFORMERS



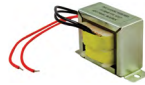
10PS12-24



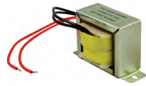
10PSMDR2024



10PSVR5T



1012VAC



1024VAC

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 Conformity

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

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

10PSVR5T

Input	24 VAC or 24 VDC
Output	5 VDC (VR1TM5) or 12 VDC output. Filtered and electronically regulated output. Built-in overload protection
Visual Indicators	Power LED indicator
Features	Modular connector/cable assembly facilitates ease of wiring Compact design allows for integration in a wide range of camera housings

Enclosure Dimensions	VR5T / VR5BT: 3.375" (W) × 1.125" (H) × 2.5" (D) All Other Units: 1.625" (W) × 1.0" (H) × 2.375" (D)
Degree of Protection	CE European Conformity

10PSMDR2024

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

PRODUCT SERIES

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

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PEOPLE COUNTING SOLUTIONS



FEATURING **LZR[®]-SIGMA**

BEA, the industry leader in activation and safety sensing solutions for the automatic door industry is challenging the way pedestrian traffic flow is being detected and counted.

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