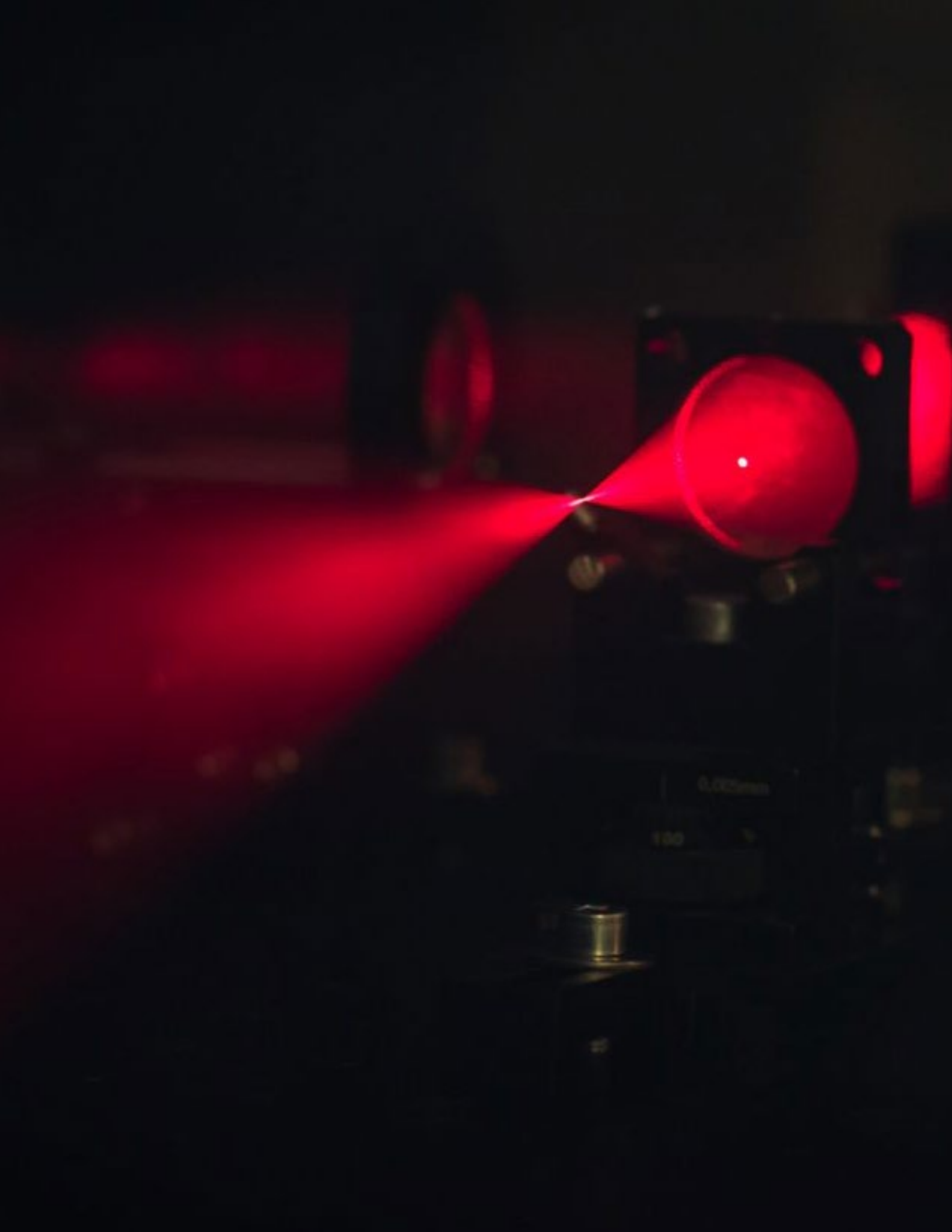


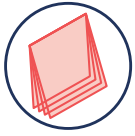
The background of the entire page is a detailed, light-gray aerial rendering of a retail store layout. The store is a long, rectangular building with a flat roof. Inside, there are various sections: a clothing area with racks of clothes, a food section with shelves of products, and a checkout area with multiple counters. Outside, there is a large parking lot with several cars parked. A ramp with stairs leads to the entrance of the store. The overall scene is a top-down view of a modern retail environment.

WHERE TO FIND OUR SOLUTIONS

RETAIL



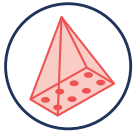
TECHNOLOGIES



LASER

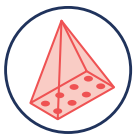
Laser technology works according to the principle of Time-of-Flight. The sensor sends an intense light impulse in a defined direction and measures the time until the signal returns. As the speed of light is a constant value (approximately 300,000 km/s), this time is directly proportional to the distance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

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



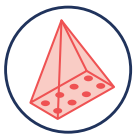
ACTIVE INFRARED WITH BACKGROUND ANALYSIS

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



ACTIVE INFRARED WITH BACKGROUND SUPPRESSION

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



PASSIVE INFRARED

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



RADAR

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



PIEZO

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



CAPACITIVE

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



RADIO CONTROL FREQUENCY

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



VIDEO

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



LZR®-S600

7

FALCON FAMILY

1

6

LZR®-WIDESCAN

IS40 / XL

12

IXIO-DT1 INDUSTRIAL

11

8

LZR®-H100

CHALLENGES TO MEET



Safety
Hazards



Energy
Conservation



Reduce
Germ Spread



3 MAGIC SWITCH

4 LZR®-FLATSCAN 3D SW

10 ULTIMO

LZR®-SIGMA 5

2 EAGLE FAMILY

9 LZR®-I30

Flo
SUPER
Welcome!

MICROWAVE SENSORS



FALCON FAMILY

MOTION SENSORS WITH CROSS-TRAFFIC AND PEDESTRIAN REJECTION

- Adjustable detection zones
- Mounting heights from 6 ½ to 23 feet (based on model)
- Six modes of detection filtering for pedestrian and parallel traffic rejection
- IP65 rated enclosure for harsh environments
- Available with 11lb, UL listed explosion-proof housing

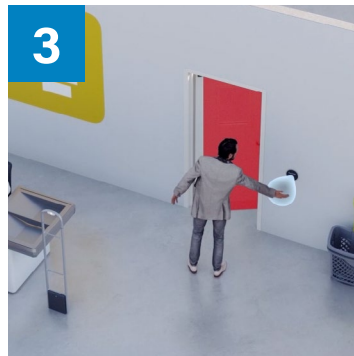


EAGLE FAMILY

MOTION SENSOR FOR AUTOMATIC DOORS

- Energy savings due to unidirectional detection capability
- Immunity settings can be adjusted to reduce unwanted detections caused by rain, snow and header vibrations
- PRM mode for applications frequently used by persons with reduced mobility (i.e. wheelchair or elderly traffic)
- Compact, low profile design

MICROWAVE SENSORS (KNOWING ACT)



MS31

MICROWAVE TOUCHLESS ACTUATOR WITH ADJUSTABLE RANGE AND RELAY HOLD TIME

- Adjustable sensing zone from 4 to 24 inches
- IP54 rated enclosure for protection against outdoor weathering and daily cleaning
- Faceplates come in jamb, single-gang, double-gang, and round sizes and are available in black, white and gray colors

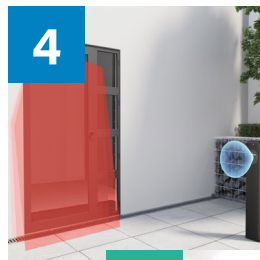


MS41

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

- Adjustable sensing zone from 4 to 24 inches
- IP55 rated enclosure capable of use in industrial and extreme wash-down environments
- Stainless steel faceplate increases durability and protection from daily cleaning
- Adjustable illumination and activation signaling

LASER-BASED SENSORS



LZR®-FLATSCAN 3D SW

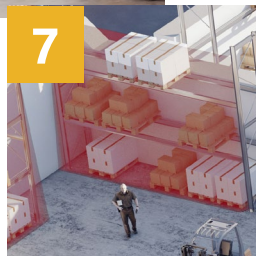
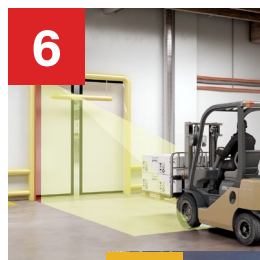
FOUR CURTAIN STANDALONE, DOOR MOUNTED SWING DOOR SAFETY SYSTEM

- The four detection curtains ensure a full-safety coverage of the leaf, hinge area and leading edge of the door
- Achieve an additional form of initial activation by programming up to two Virtual Push Buttons
- Hub-less system offers fewer components for a more straightforward setup and installation

LZR®-SIGMA

COMPLETE PEOPLE COUNTING SOLUTION

- Independent of lighting conditions
- Naturally filters door movement and can be installed right above the leaf
- Can define the counting field with precision and pair multiple LZR-SIGMA sensors to cover a wide area



LZR®-WIDESCAN

MOTION, PRESENCE & SAFETY SENSOR FOR INDUSTRIAL DOORS

- Utilize mobile app to easily configure sensor settings (available on the Apple App Store & Google Play Store)
- Virtual pull-cord function can differentiate between pedestrian and vehicle traffic and can provide pulse-on-stop activation

LZR®-S600

LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

- Maximum detection range of 82 x 82 feet
- High immunity to environmental interferences
- Ability to ignore dynamic ground conditions and extreme weather



LZR®-H100

LASER SCANNER FOR GATE & BARRIER APPLICATIONS

- Two relays allow for activation via motion or presence
- Time-of-Flight presence-based opto-electronic sensor ensures accurate and immediate detection
- Ability to detect vehicle trajectory during approach and departure

LZR®-I30

LASER SCANNER FOR INDUSTRIAL AUTOMATION

- Four curtains of detection capable of 30 x 30 feet
- Detects objects as small as 2 inches at 30 feet away, depending on application
- Ability to ignore dynamic ground conditions and extreme weather

INFRARED SENSORS

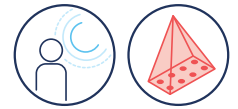


IS40P

PRESENCE SENSOR IDEAL WITH VIRTUAL LOOP FUNCTIONALITY

- Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment
- Six modes of detection filtering are available for microwave immunity, as well as pedestrian and parallel traffic rejection
- Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light, sun, rain and snow

DUAL TECHNOLOGY SENSORS



ULTIMO

AUTOMATIC SLIDING DOOR SENSOR WITH EXTENDED / ENHANCED SAFETY

- Three infrared curtains, each with 32 independent detection spots, offer deeper and broader safety coverage
- Four visible red alignment spots are projected onto the ground, verifying the location of the infrared curtains and helping to increase the accuracy of setup.
- Easily define the microwave pattern shape, adjust the infrared curtain width and review troubleshooting diagnostics via a menu-driven LCD



IXIO-DT1 INDUSTRIAL

MOTION & PRESENCE SENSOR FOR INTERIOR INDUSTRIAL DOORS

- Ten microwave activation sensitivity settings and three infrared safety immunity settings
- PRM mode for applications frequently used by persons with reduced mobility (i.e. wheelchair or elderly traffic)
- Two 24-spot, high-density, infrared safety curtains providing precise presence detection



IS40 / XL

MOTION & PRESENCE SENSOR FAMILY FOR INDUSTRIAL DOORS

- 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
- Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light, sun, rain and snow

RADIO CONTROLS

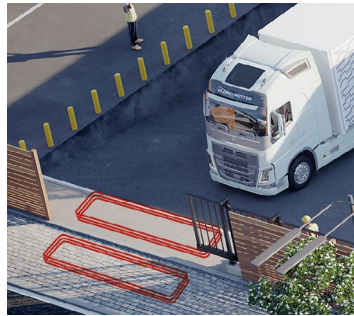


900 MHZ SERIES

WIRELESS TRANSMITTERS AND RECEIVER

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

MODULES



MATRIX LOOP DETECTORS

UL LISTED LOOP DETECTORS

- Available in operating powers of 110 to 120 VAC and 12 to 24 VAC / VDC
- Automatic sensitivity boost
- Settings are adjusted via two easy-to-use potentiometers
- Pulse-on-entry and pulse-on-exit presence detection



BR3-X

PROGRAMMABLE 3-RELAY LOGIC MODULES

- 13 Function universal modules for a variety of application needs, such as time delay, 3-relay sequencing and more

BR2-900

2-RELAY LOGIC MODULE + 900 MHZ

- 2-relay logic module with built-in 900 MHz wireless technology and day / night mode functionality

ACCESSORIES



900 MHZ SERIES

WIRELESS TRANSMITTERS & RECEIVERS

- IP65 rated handheld transmitters available
- BEA also offers 433 MHz & 300 MHz frequencies



ACCESS CONTROL

- UL Listed GATELOCKS
- Universal IP66 Rated Keypad
- KEYSWITCHES



INSTALLATION ACCESSORIES

- UL Listed Power Supplies
- L & Z Brackets
- Industrial Extension Brackets
- BEA Universal Remote Control



KEEP IN TOUCH

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