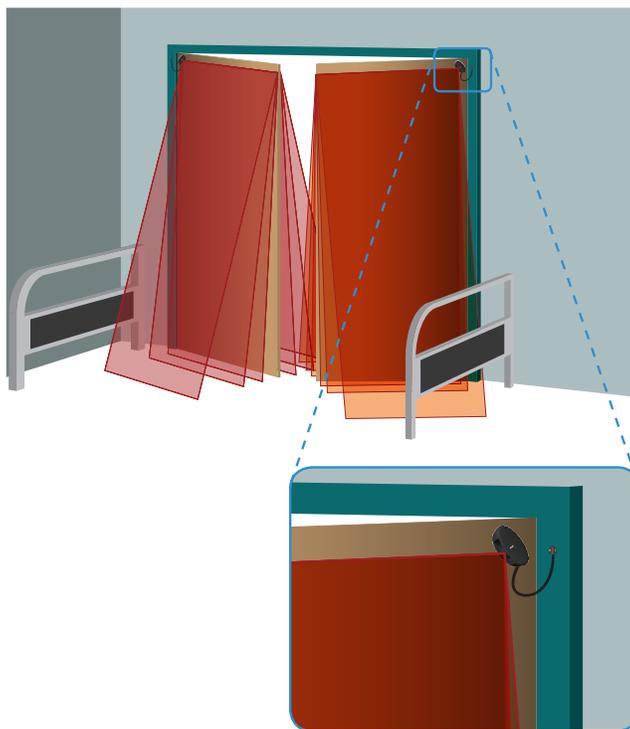


# LZR<sup>®</sup>-MICROSCAN

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



## PRIMARY APPLICATION



## DESCRIPTION

BEA's LZR-microscan is a laser-based sensor system designed for automatic swing doors. It is the premier safety sensor system on the market.

Using sophisticated time-of-flight technology, the LZR-microscan eliminates all past limitations of infrared-based devices. Its background independence eliminates nuisance detections caused by changing weather and floor conditions, while gyroscopes sense the movement of the door for accurate positioning.

The LZR-microscan provides adjustable pattern depths that exceed the ANSI 156.10 8.2.2.3 standard and offer 100% coverage in all door states (fully open, fully closed, opening and closing).

## FEATURES & BENEFITS

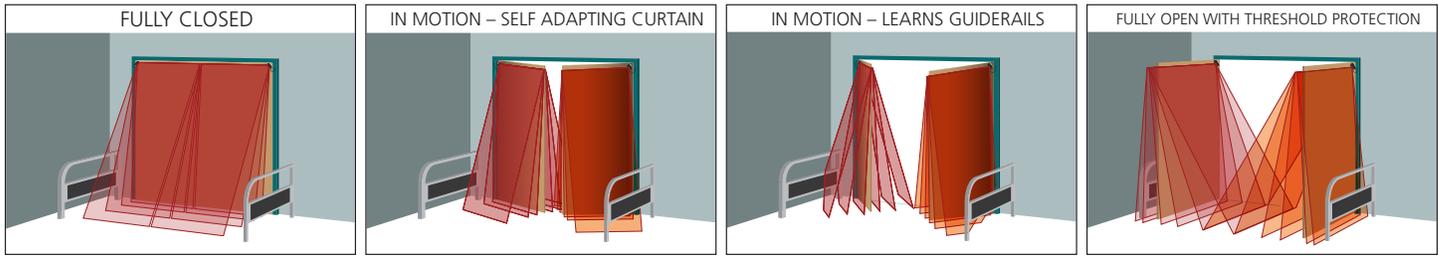
- Plug & play technology and universal door compatibility greatly reduces installation time
- Centralized hub and intuitive LCD user interface with simplified three-step programming greatly reduces setup time
- High resolution, self-adapting detection zones, coupled with reduced uncovered zones create the most accurate and reliable safety sensor
- "Zip code" troubleshooting and on-board error log provide ensure easy technical support
- Three "traffic modes" for normal, high or extreme traffic flow
- Fully monitored internally, capable of external monitoring
- Visible LED indicates connection between sensor and door control



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Customer Service: 800.523.2462  
Technical Support: 800.407.4545  
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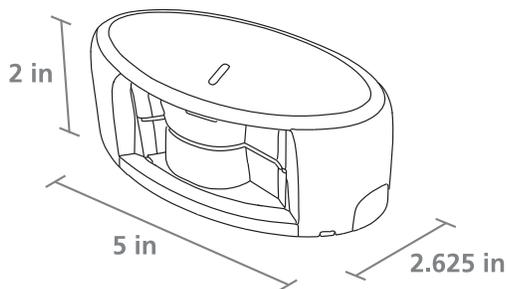
## FULL COVERAGE IN ALL DOOR STATES



## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Presence
<b>Min. / Max. Door Width</b>	20 in to 48 in (per door leaf) (measured from leading edge to sensor LED)
<b>Mounting Height</b>	75 in to 98 in (6.25 ft to 8 ft) (measured from finished floor to sensor LED)
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	2.56°
<b>Testbody (HxWxD)</b>	28 in x 12 in x 8 in
<b>Emission Characteristics</b> IR laser	Wavelength 905 nm; Maximum Output Pulse Power 35 W (CLASS I)
<b>Supply Voltage</b>	12 – 30 VDC (15 W Class II)
<b>Power Consumption</b>	< 15 W
<b>Response Time</b>	Typ. 40 ms; Max. 80 ms
<b>Output Rating</b>	4 electro-mechanic relays (galvanic isolated - polarity free) All outputs Class 2 supply, 12 - 24 VAC, 12 - 30 VDC, Max. 15 W
<b>Input Rating</b>	2 optocouplers (galvanic isolated - polarity free) 12 - 24 VAC, 50 / 60 HZ, 12 - 30 VDC, Max. 15 W
<b>Test Input*</b>	8 – 15 VDC
<b>Temperature Range</b>	-13°F to +121°F (-25°C to +55°C)
<b>Degree of Protection</b>	Hub: IP20/NEMA 1 Sensor: IP53/NEMA 3
<b>Humidity</b>	0 – 95% Non-condensing
<b>Vibrations</b>	< 2 G
<b>Material</b>	PC/ASA
<b>Norm Conformance</b>	EN 60825-1-Eye-safety class 1 IR laser (905 nm), UL325, UL6730
<b>Mounting Angle (rotational)</b>	35° fixed
<b>Tilt Angle</b>	0° to 5° (for angles less than 5° contact Technical Support)
<b>Pollution on Front Screens</b>	Maximum 30%; Homogenous

## DIMENSIONAL DRAWINGS



## RELATED PRODUCTS



**10LZRMICROSCAN1**  
SINGLE SWING  
DOOR KIT



**10LZRMICROSCAN2**  
SIM PAIR / DUAL  
EGRESS KIT



**10LZRMICROSCAN1U**  
CUSTOM SINGLE  
UNIVERSAL KIT



**10LZRMICROSCAN2U**  
CUSTOM PAIR / DUAL  
UNIVERSAL KIT



**10LZRMICROSCANHUB**  
LZR-MICROSCAN HUB



**10MICROSCANMOUNT**  
MOUNTING ARM



**70.5554**  
MOUNTING SPACER



**10LZRMICROLEFT**  
LEFT MOUNT SENSOR



**10LZRMICRORIGHT**  
RIGHT MOUNT  
SENSOR



**10MICROSCAN-Y**  
Y-HARNES



**10EAGLE**  
MICROWAVE  
MOTION SENSOR

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