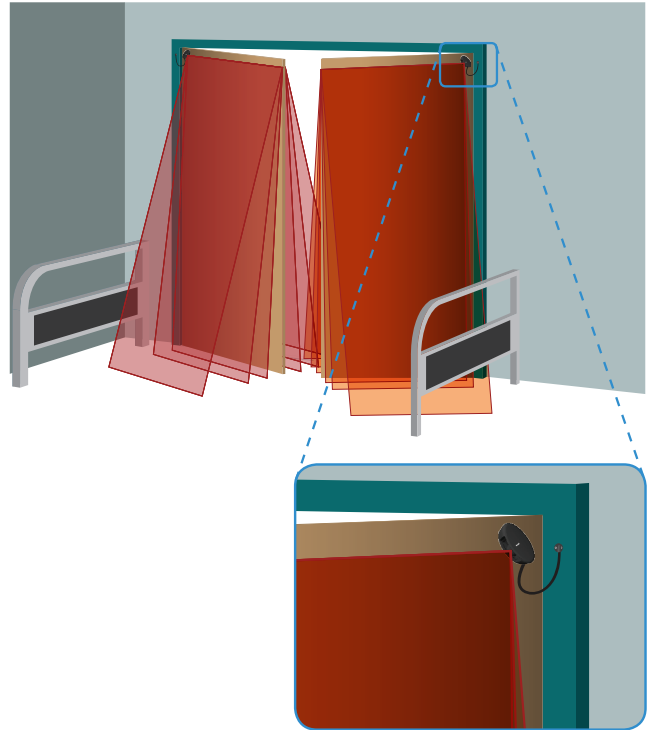


# LZR<sup>®</sup>-MICROSCAN

STANDALONE, DOOR-MOUNTED, SWING DOOR SAFETY SYSTEM



## PRIMARY APPLICATION



## DESCRIPTION

BEA's LZR-microscan is the premier safety sensor system, compatible with every swing door on the market.

Using sophisticated laser-based technology, combined with motion sensing gyroscopes, LZR-microscan eliminates all past limitations of infrared-based devices.

BEA's Laser Time-of-Flight solution utilizing background independence eliminates nuisance detections caused by changing weather and floor conditions.

BEA's gyroscopic technology 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 and in motion).

## FEATURES & BENEFITS

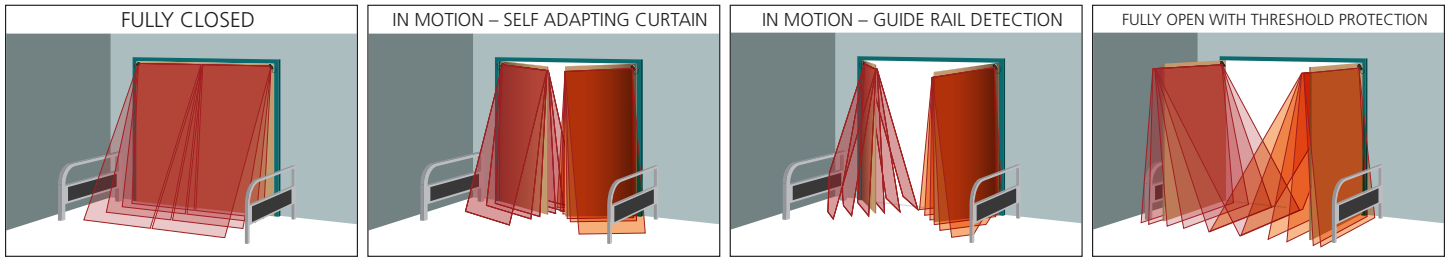
- Efficient plug & play technology and universal door compatibility greatly reduces installation time
- Centralized Hub with intuitive LCD user interface with simplified three-step programming greatly reduces setup time
- High definition, self-adapting detection zones, coupled with reduced uncovered zones create the most accurate and reliable safety sensor
- BEA's unique "zip code" troubleshooting and on-board error log provide the Industry with the easiest system maintenance solution
- Three "traffic modes" for normal, high or extreme traffic flow
- The UL mark ensures adherence to the highest standards of quality, safety and limited liability



BEA, Inc.  
RIDC Park West  
100 Enterprise Drive  
Pittsburgh, PA 15275-1213

Customer Service: 800.523.2462  
Technical Support: 800.407.4545  
www.BEAinc.com

## APPLICATIONS

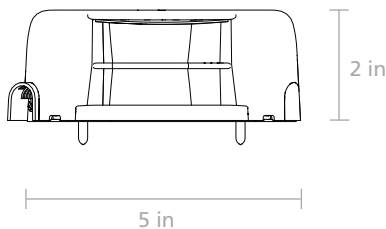


## TECHNICAL SPECIFICATIONS

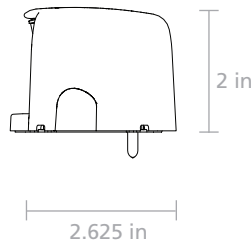
<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Presence
<b>Maximum Door Width</b>	20 in to 48 in (measured from finished floor to sensor LED)
<b>Mounting Height</b>	78 in to 98 in (6.5 ft to 8 ft) (measured from finished floor to sensor LED)
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	2.56°
<b>Testbody (HxWxD)</b>	28 in x 12 in x 8 in (according to UL325)
<b>Emission Characteristics</b> IR laser	Wavelength 905 nm; Maximum Output Pulse Power 35 W (CLASS 1)
<b>Supply Voltage</b>	12 – 24 VAC ± 5% / 12 – 30 VDC ± 10% (15 W Class II) <i>(Varies per application, contact BEA tech service)</i>
<b>Power Consumption</b>	15 W maximum
<b>Response Time</b>	Typ. 40 ms; Max. 80 ms
<b>Output</b>	4 Electro-mechanic Relays (Polarity Free)
<b>Input</b>	2 Optocouplers (Galvanic Isolated, Polarity Free)
<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

FRONT VIEW



SIDE VIEW



## SERIES BREAKDOWN



**10LZRMICROSCAN1**  
SINGLE SWING  
DOOR KIT



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



**10LZRMICROSCAN1U**  
CUSTOM SINGLE  
UNIVERSAL KIT



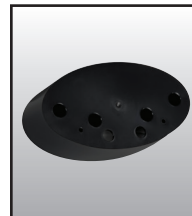
**10LZRMICROSCAN2U**  
CUSTOM PAIR / DUAL  
UNIVERSAL KIT



**10LZRMICROHUB**  
LZR-MICROSCAN HUB



**10MICROSCANMOUNT**  
MOUNTING ARM



**70.5554**  
MOUNTING SPACER



**10LZRMICROLEFT**  
LEFT MOUNT SENSOR



**10LZRMICRORIGHT**  
RIGHT MOUNT  
SENSOR



**20.5320**  
Y-HARNES

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LZR® - MICROSCAN

STANDALONE, DOOR-MOUNTED, SWING DOOR SAFETY SYSTEM

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