



# LZR®-MICROSCAN T

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



## LEARN MORE



click or scan

## TECHNOLOGY



## CERTIFICATIONS



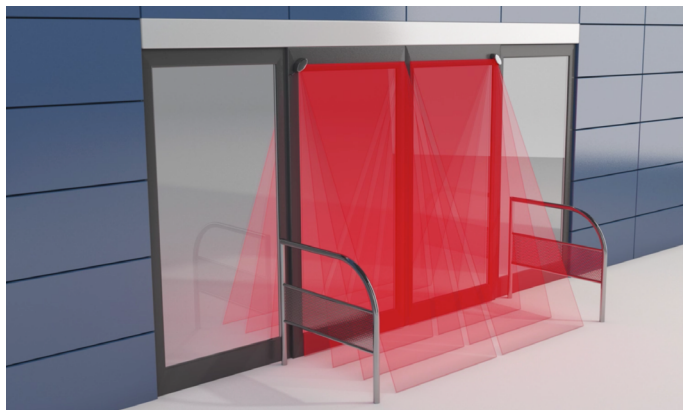
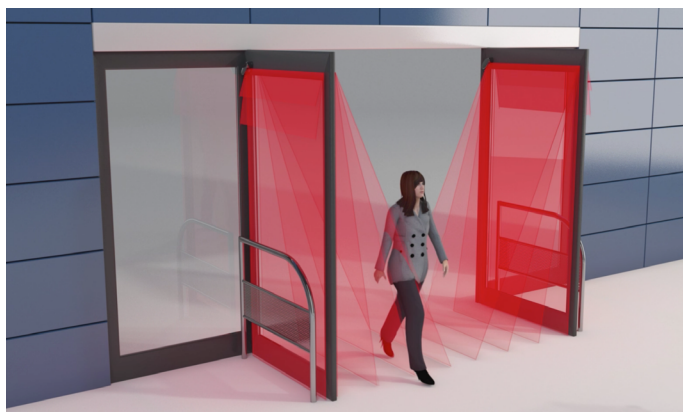
## DESCRIPTION

BEA's **LZR®-MICROSCAN T** is a LASER-based sensor system designed for automatic swing doors.

Utilizing Time-of-Flight technology, the **LZR®-MICROSCAN T** eliminates the 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 T** provides adjustable pattern depths that exceed the ANSI 156.10 8.2.2.3 standard and offer 100 percent coverage in all door states (fully open, fully closed, opening and closing).



## Easy To Install

Plug & play technology utilizing a centralized hub and intuitive LCD interface greatly reduces installation and setup time

## Highly Accurate Detection

High resolution, self-adapting detection zones, coupled with reduced uncovered zones create the most accurate and reliable safety sensor

## Built-In Troubleshooting

On-board error log ensures easy technical support

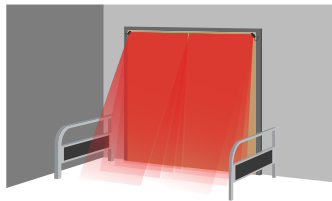
## Standards Compliant

Fully monitored internally, capable of external monitoring

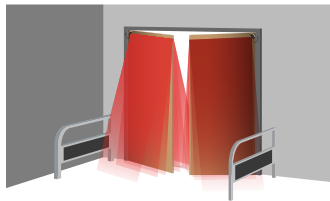
## UL 10B/C Listed

Fire rated for up to three hours

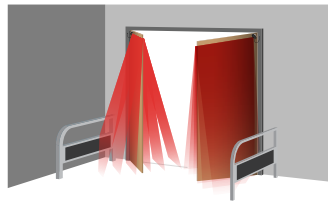
## APPLICATIONS



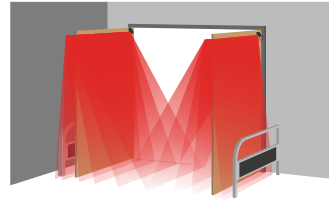
Fully Closed



In Motion – Self Adapting Curtain



In Motion – Learns Guiderails



Fully Open With Threshold Protection

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Presence
<b>Min. / Max. Door Width</b>	20 – 48" (measured from leading edge to sensor LED)
<b>Mounting Height</b>	75 – 98" (measured from finished floor to sensor LED)
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	2.56°
<b>Testbody</b>	28" (H) × 12" (W) × 8" (D)
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; Maximum Output Pulse Power 35 W (Class II)
<b>Supply Voltage</b>	12 – 30 VDC (15 W Class I)
<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 – 121 °F (-25 – 55 °C)
<b>Degree of Protection</b>	Hub: IP20 / NEMA 1 Sensor: IP53 / NEMA 3
<b>Humidity</b>	0 – 95% Non-condensing
<b>Vibrations</b>	< 2 G
<b>Material</b>	PC / ASA
<b>Norm Conformity</b>	EN 60825-1-Eye-safety class 1 IR LASER (905 nm), UL 10B/C Fire Rated 3 hrs (file #R39071)
<b>Mounting Angle (rotational)</b>	35° fixed
<b>Tilt Angle</b>	0 – 5° (for angles less than 5° contact Technical Support)
<b>Pollution on Front Screens</b>	Maximum 30%; Homogenous

## PRODUCT SERIES



**10LZRMICROSCAN1T**  
Single swing door kit



**10LZRMICROSCAN2T**  
Sim pair / dual egress kit



**10LZRMICROSCAN1UT**  
Custom single universal kit



**10LZRMICROSCAN2UT**  
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-Harness



**10MICROSCAN-UKIT**  
Universal accessory kit



**70.5745**  
Sentrex retrofit accessory



**35.1321**  
Replacement sensor cover, Black

**DISCLAIMER** Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. BEA has the right without liability to change descriptions and specifications at any time.

WWW.BEASENSORS.COM