



# LZR®-MICROSCAN T

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



## VIDEO



[Watch the product video](#)

## TECHNOLOGY



## CERTIFICATIONS



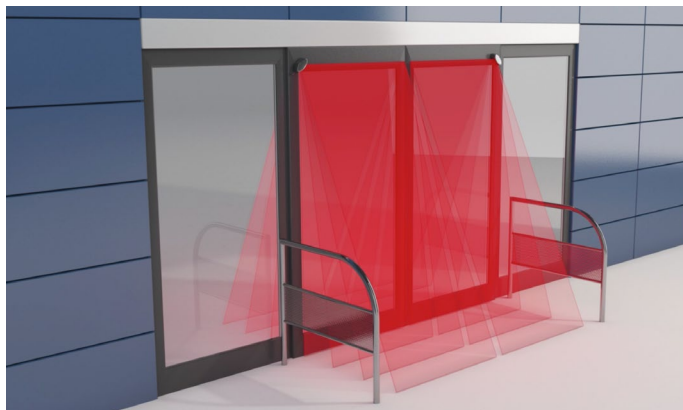
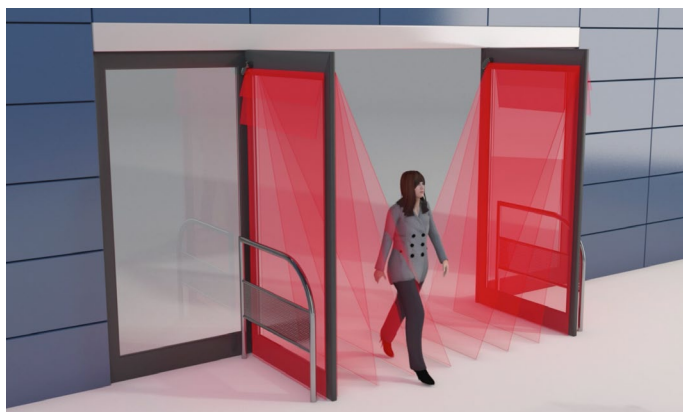
## DESCRIPTION

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

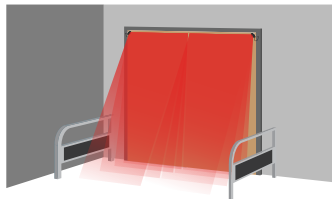
## Standards Compliant

Fully monitored internally, capable of external monitoring

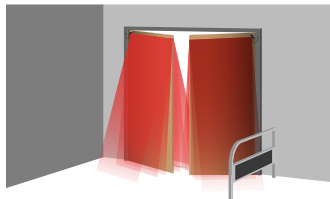
## UL 10B/C Listed

Fire rated for up to three hours

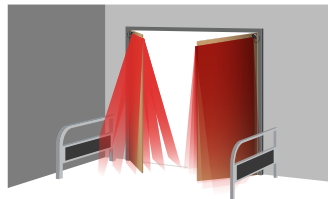
## APPLICATIONS



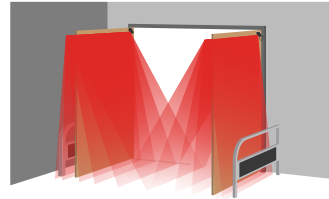
Fully Closed



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 I)
<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), UL60730, 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

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