

# LZR<sup>®</sup>-MICROSCAN

STANDALONE, DOOR-MOUNTED,  
SWING DOOR SAFETY SYSTEM

*The Only UL Listed Swing Door  
Sensor On The Market*



REVOLUTIONIZING SWING DOOR SAFETY

Standalone Safety System

## DESCRIPTION

The **LZR-MICROSCAN** is the next generation sensor system for swing door safety. The LZR-microscan automatically adapts and adjusts its detection zones based on the door's position, ensuring complete and consistent safety. Time of Flight technology eliminates nuisance detections due to changing floor conditions.

Adjustable pattern depths exceed the ANSI 156.10 8.2.2.3 standard and offer 100% door coverage in all door states (fully open, fully closed, in motion).

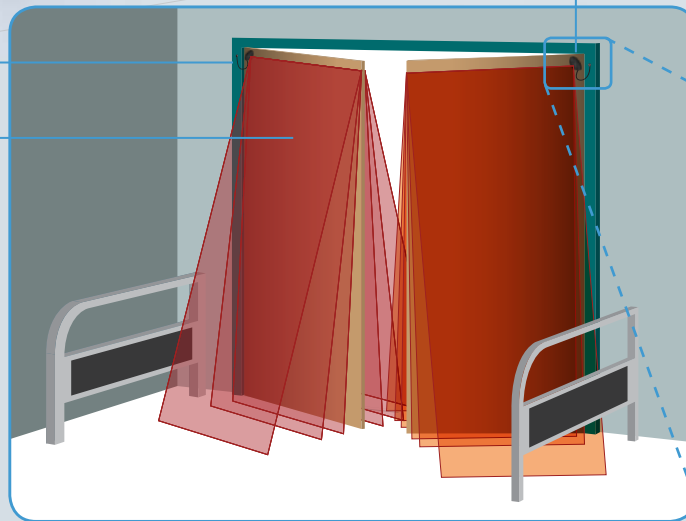


EN

■ LZR-microscan (Right)

■ LZR-microscan (Left)

■ Self-Adapting Detection Zones

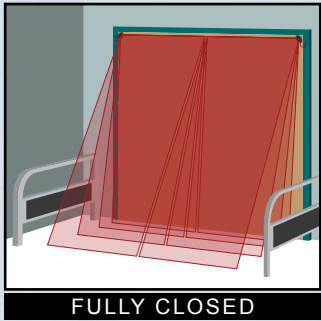


## FEATURES AND BENEFITS

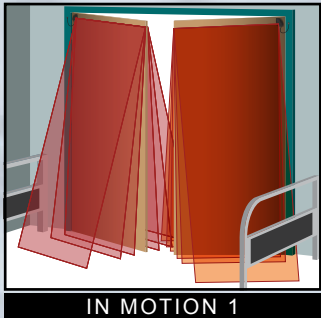
- **Standalone, door-mounted safety system** combines overhead and door-mounted presence detection that exceeds ANSI 156.10 section 8.2.2.3
- **Reduced installation time** due to simple plug and play interface with only four installation parameters needed for standard setup
- **Centralized Hub adjustments** provide an intuitive installation process and easy to use diagnostic tools
- **Self adapting detection zones** adapt during door movement to adjust to any adjacent walls and guide rails
- **Continuous internal monitoring** of sensors ensures safety and reliability. External monitoring available with compatible door controls.
- **Compatible with most low energy doors** – *contact sales team for specifics*



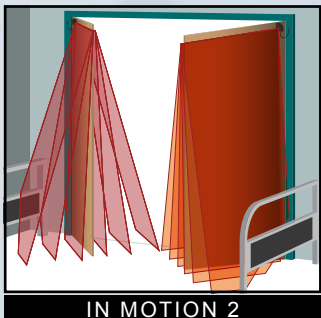
OPEN UP NEW HORIZONS



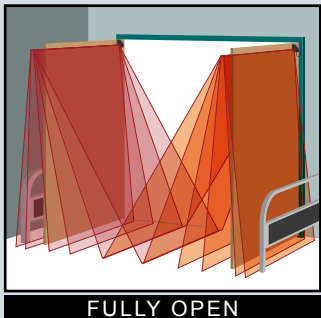
FULLY CLOSED



IN MOTION 1



IN MOTION 2



FULLY OPEN

**APPLICATIONS**

- Single Swing Doors
- Simultaneous Pair Doors
- Dual Egress Doors / Independent Dual Egress
- Uneven Pairs
- Knowing Act Doors
- Fully Automatic Doors

**LZR-MICROSCAN HUB**



**PLUG & PLAY**

Reduced installation time with minimal hardwired connectors.

**LCD SCREEN**

Intuitive configuration via an LCD showing text and graphics, which helps reduce setup time.

**LED INDICATORS**

Used for verification of system operation.

**ADJUSTMENTS**

Easy-to-use controls via a selectable adjustment knob that interfaces with the LCD.

**TECHNICAL SPECIFICATIONS**

<b>Technology:</b>	Laser Scanner, Time-of-Flight Measurement
<b>Detection mode:</b>	Presence
<b>Maximum door width:</b>	48 in
<b>Mounting Height:</b>	6' 7" to 8' 2" in (for greater heights contact Technical Support)
<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)
<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 Conformity:</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

*Specifications are subject to change without prior notice.*

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