



# LZR®-FLATSCAN 3D SW

FOUR CURTAIN STAND-ALONE,  
DOOR-MOUNTED SAFETY SYSTEM WITH  
VIRTUAL PUSH BUTTON FUNCTIONALITY

## DESCRIPTION

BEA's **LZR-FLATSCAN 3D SW** is a four-curtain, door-mounted, safety system for automatic swing doors. Using LASER Time-of-Flight technology, its three-dimensional detection field guarantees full-safety coverage of the opening area. Ideal for environments in healthcare, education, and commercial settings.

The deep detection pattern reduces sudden door movements, preventing contact as a person walks through the doorway, benefitting individuals with limited mobility, and reducing the wear and tear of the door. Additional safety features include Leading Edge Safety for detection beyond the door leaf and coverage of the hinge area with Finger Detection Technology™.

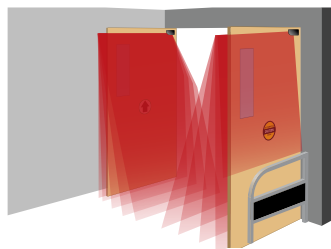
Technicians can reduce installation and setup time with Hand Gesture Setup and the built-in knowing act device. Instead of coordinating and wiring activation devices, utilize Virtual Push Buttons for a non-contact form of door activation. Convenient in settings that rely on hygienic solutions, like surgical environments.

The **LZR-FLATSCAN 3D SW** is capable of exceeding the 156.10 section 8.2.2.3 standard for detection area and meets section 8.1.4 for monitoring.

## APPLICATIONS



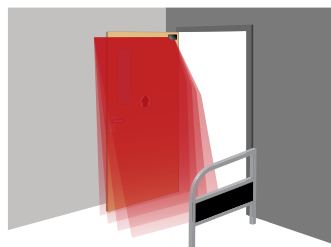
Low Energy



Double Swing



Dual Egress

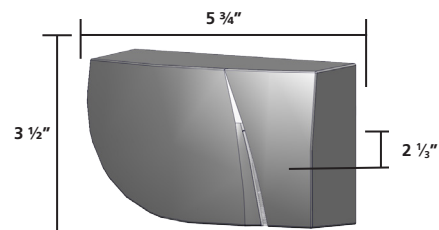


Single Swing



## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Presence
<b>Max. Detection Range</b>	13' (diagonal) with reflectivity of 2% (e.g. at (W) x 5' > max. (H) x 12')
<b>Recommended Mounting Height</b>	75 – 98"
<b>Opening Angle</b>	
Door Leaf Safety	80°
Pinch Zone Safety	20°
<b>Angular Resolution</b>	
Curtain 1	0.2°
Curtain 2	1°
Curtain 3	1.7°
Curtain 4	2.5°
<b>Tilt Angles</b>	0 – 5°
<b>Typ. Min. Object Size</b>	¾" @ 13' in curtain C1
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; output power < 0.1 mW; Class 1
<b>Supply Voltage</b>	12 – 24 VDC ±15% (to be operated from SELV-compatible power supplies only)
<b>Power Consumption</b>	< 2 W
<b>Response Time</b>	Typ. < 120 ms, Max. 220 ms
<b>Output</b>	3 electronic relays (galvanic isolation - polarity free)
Max. Switching Voltage	42 VAC / VDC
Max. Switching Current	100 mA
<b>LED Signals</b>	1 RGB LED: Detection / Output Status
<b>Dimensions</b>	
Spacer	5 ¾" (L) x 3 ½" (H) x 2 ½" (D) D + 1 ½"
<b>Material / Color</b>	PC / ASA / Black
<b>Degree of Protection</b>	IP44 (IEC 60529)
<b>Temperature Range</b>	-13 – 140 °F
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Min. Door Leaf Speed</b>	2° / s
<b>Norm Conformity</b>	ISO 13849-1 PL "d"/ CAT2, IEC 60825-1, IEC 62061 SIL 2



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BEA AMERICAS / RIDC Park West / 100 Enterprise Drive / Pittsburgh, PA  
T 1-800-523-2462 / F 1-888-523-2462 / E info-us@BEAsensors.com

A Halma company