



# LZR<sup>®</sup>-FLATSCAN 3D SW

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



### Three-Dimensional Field Coverage

3D detection field guaranteeing full-safety coverage of the opening area



### LASER-based Technology

Capable of ignoring dynamic ground conditions (reflective flooring, pedi-mats, wet surfaces, etc.)



### Completely Touchless

For germ-free activation, program up to two Virtual Push Buttons

## EXCEEDING ANSI 156.19

### REACTIVATION

Complete door coverage with LZR-FLATSCAN 3D SW LASER-based sensor



Work Inspection

Exit EG

Parking U2



### PRIMARY ACTIVATION

Push plate, touchless switch, or radio controls

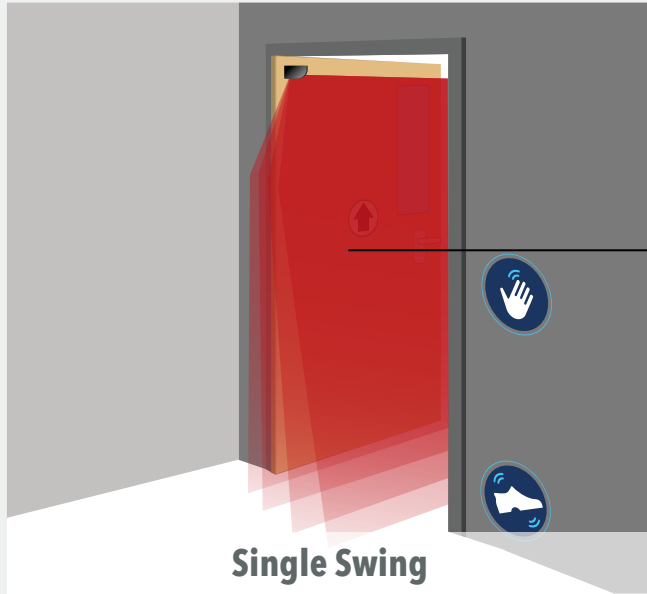


### ADDITIONAL ACTIVATION

Utilize Virtual Push Buttons in addition to a knowing-act device

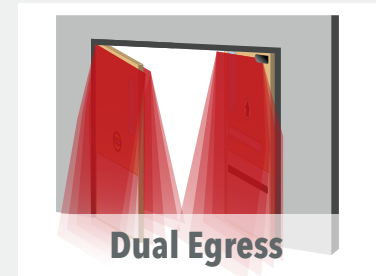


# LOW-ENERGY DOOR APPLICATIONS



**REACTIVATION**  
LASER-based sensor  
(handed for door leaf)

**ENHANCED SAFETY**  
Detection field extends  
beyond the hinge area



## 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 × 5' > max. H × 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>	Wavelength 905 nm; output power < 0.1 mW; Class 1
<b>IR LASER</b>	
<b>Supply Voltage</b>	12 – 24 VDC ±15% * (to be operated from SELV-compatible power supplies only)

<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>	5 ¾" (L) × 3 ½" (H) × 2 ½" (D) Spacer
<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>Compliance</b>	ISO 13849-1 PL "d" / CAT2 IEC 60825-1 IEC 62061 SIL 2 UL 10B/C Fire-Rated 1 hour (file #R39071)

\* This sensor is powered by DC voltage only. If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.

Visit [FLATSCAN3D.com](https://www.flatscan3d.com)



**Product Questions?**  
Call BEA's Technical Service Team:  
1.800.407.4545