LZR®-FLATSCAN 3D SW

FOUR CURTAIN STAND-ALONE, DOOR-MOUNTED SAFETY SYSTEM

DESCRIPTION

BEA's **LZR®-FLATSCAN 3D SW** is a LASER-based Time-of-Flight presence sensor for swing doors. The four curtains create a three-dimensional detection pattern covering the door's entire pathway, benefiting daily users in healthcare, education, and commercial settings.

The deep detection pattern reduces sudden door movements preventing contact with the user. Also, lessening the door's wear and tear. Additional safety features include Leading Edge Safety and Finger Detection Technology™. Coverage of the hinge area and the leading edge is increased, avoiding any risk of contact.
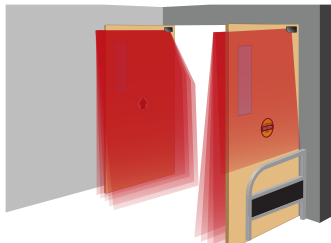
Completely touchless. Utilize Virtual Push Buttons in addition to a knowing act device. Convenient in settings that rely on hygienic solutions, like surgical environments.

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.
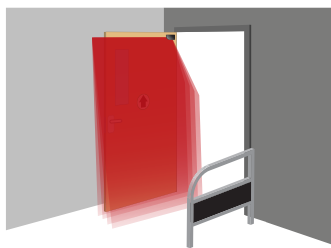
APPLICATIONS

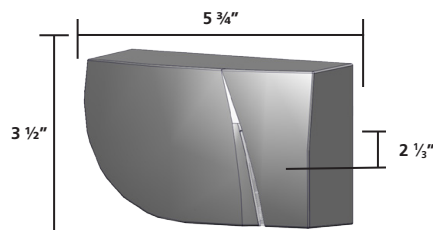
Low Energy

Double Swing

Dual Egress

Single Swing

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight measurement
Detection Mode	Presence
Max. Detection Range	13' (diagonal) with reflectivity of 2% (e.g. at (W) × 5' > max. (H) × 12')
Recommended Mounting Height	75 – 98"
Opening Angle	
Door Leaf Safety	80°
Pinch Zone Safety	20°
Angular Resolution	
Curtain 1	0.2°
Curtain 2	1°
Curtain 3	1.7°
Curtain 4	2.5°
Tilt Angles	0 – 5°
Typ. Min. Object Size	¾" @ 13' in curtain C1
Emission Characterisitics	Wavelength 905 nm;
IR LASER	output power < 0.1 mW; Class 1
Supply Voltage	12 – 24 VDC ±15% (to be operated from SELV-compatible power supplies only)
Power Consumption	< 2 W
Response Time	Typ. < 120 ms, Max. 220 ms
Output	3 electronic relays (galvanic isolation - polarity free)
Max. Switching Voltage	42 VAC / VDC
Max. Switching Current	100 mA
LED Signals	1 RGB LED: Detection / Output Status
Dimensions	5 ¾" (L) × 3 ½" (H) × 2 ⅓" (D)
Mounting Base	D + ¾"
Spacer	D + 1 ½"
Material / Color	PC / ASA / Black
Degree of Protection	IP44 (IEC 60529)
Temperature Range	-13 – 140 °F
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Min. Door Leaf Speed	2° / s
Norm Conformity	ISO 13849-1 Pl "d"/ CAT2, IEC 60825-1, IEC 62061 SIL 2

WWW.BEASENSORS.COM

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

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