



LZR®-FLATSCAN 3D SW

FOUR CURTAIN STAND-ALONE,
DOOR-MOUNTED SAFETY SYSTEM



VIDEO



[Watch the product video](#)

TECHNOLOGY



CERTIFICATIONS



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.



Adaptive Sensing

High-resolution detection curtains create a reliable solution with the ability to self-adapt as the door opens, preventing false detections from guide rails and tight corridors

Easy Setup

Hub-less system offers fewer components for a more straightforward setup and installation. While Hand Gesture Setup™ reduces configuration time with easy door width programming

Advanced Safety

The four detection curtains ensure a full-safety coverage of the leaf, hinge area and leading edge of the door

Virtual Push Button

Achieve an additional form of initial activation by programming up to two Virtual Push Buttons

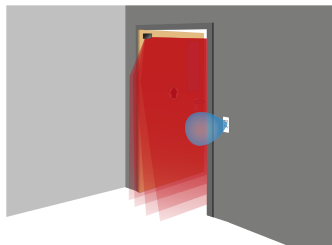
Background Independence

LASER technology ensures independence of all types of flooring (pedi-mats, carpet, reflective flooring, wet surfaces, etc.) and the surrounding environment (weather and lighting)

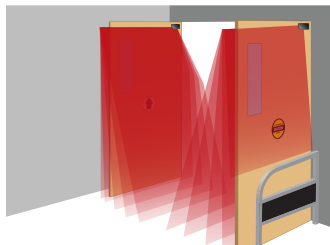
*This sensor is powered by DC voltage only. If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.



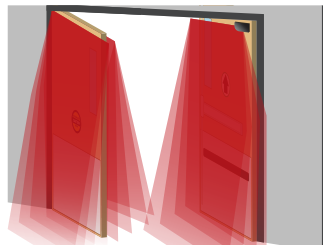
APPLICATIONS



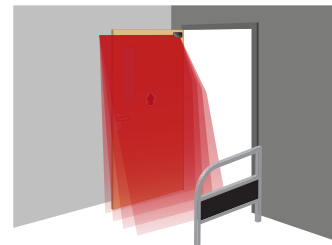
Low Energy



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 Characteristics	Wavelength 905 nm; 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 ½" (D) 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

PRODUCT SERIES



10LZRFLATSCAN3D-SWBK
Left & Right Sensor Kit
(Black)



10LZRFLATSCAN3D-LBK
Single Sensor Kit, Left
(Black)



10LZRFLATSCAN3D-RBK
Single Sensor Kit, Right
(Black)



10LZRFLATSCAN3D-SWBKU
Left & Right Sensor Kit with
Power Supply (Black)

10LZRFLATSCAN3D-LB	Left Replacement Sensor, Black
10LZRFLATSCAN3D-RB	Right Replacement Sensor, Black
10LZRFLATSCAN3D-GA	Glass Door Accessory
35.0287	LZR-FLATSCAN 3D SW Replacement Cover, Black, Left
35.0288	LZR-FLATSCAN 3D SW Replacement Cover, Black, Right
70.5753	Spacer, Black
35.1329	Primary / Secondary Harness
20.5433	LZR-FLATSCAN 3D SW Control Harness
70.5745	Sentrex Retrofit Accessory

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