



LZR[®]-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

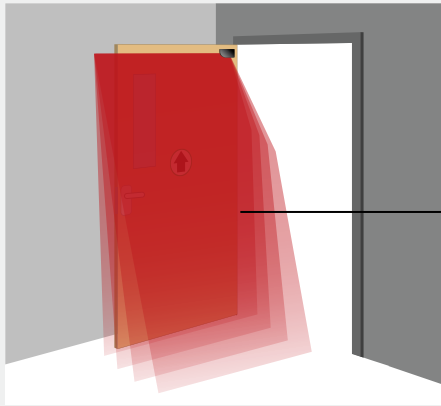


ADDITIONAL ACTIVATION

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

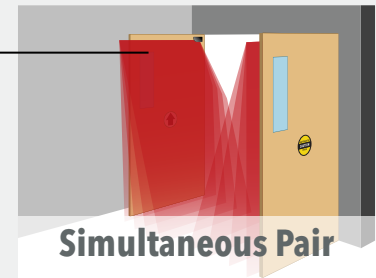


LOW-ENERGY DOOR APPLICATIONS



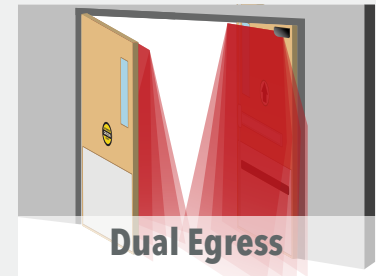
Single Swing

REACTIVATION
LASER-based sensor
(handed for door leaf)



Simultaneous Pair

ENHANCED SAFETY
Detection field extends
beyond the hinge area



Dual Egress

TECHNICAL SPECIFICATIONS

TECHNOLOGY / PERFORMANCE

Technology	LASER scanner, time-of-flight measurement
Detection mode	Presence
Max. detection range	13' (diagonal) with reflectivity of 2% e.g. at 36" width, H _{min} = 75" H _{max} = 151.8" e.g. at 42" width, H _{min} = 75" H _{max} = 150.2" e.g. at 48" width, H _{min} = 75" H _{max} = 148.4" Use the FLATSCAN Sizer Tool for custom door widths and mounting heights.
Detection field coverage	Door leaf safety: 80° Pinch zone safety: 20°
Opening angle	80° minimum
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
Min. door leaf speed	2%/sec
Emission characteristics (IEC 60825-1)	IR LASER: wavelength 905 nm; output power < 0.1mW; Class 1

ELECTRICAL

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

PHYSICAL

Dimensions	5 ¼" (L) × 3 ½" (H) × 2 ½" (D) mounting base: D + ¼" spacer: D + 1 ½"
Material - Color	PC/ASA - black
Protection degree	IP44 (IEC 60529)
LED signals	1 RGB LED: detection/output status
Temperature range	-13 – 140 °F
Humidity	0 – 95% non-condensing
Vibrations	< 2 G

COMPLIANCE

Compliance	ISO 13849-1 PL "d"/ CAT2; IEC 60825-1; IEC 62061 SIL 2 UL10 – file # R39071
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* 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



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