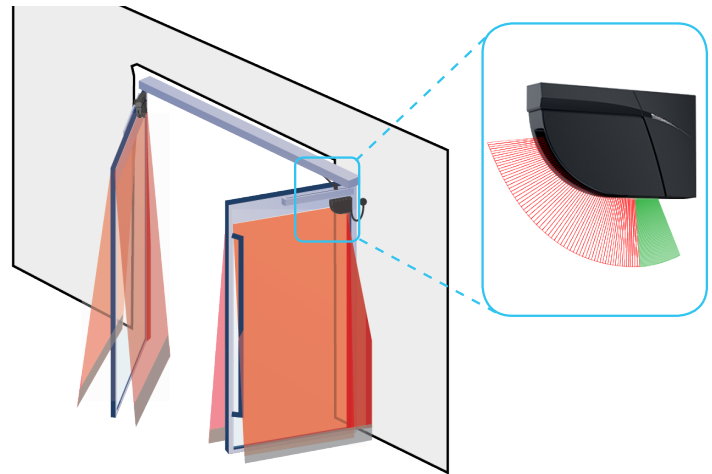


LZR®-FLATSCAN SW

STAND-ALONE, DOOR MOUNTED SAFETY SENSOR FOR SWING DOORS



PRIMARY APPLICATIONS



DESCRIPTION

BEA's LZR®-FLATSCAN SW is a LASER-based time-of-flight presence sensor for use as a stand-alone safety sensor on automatic pedestrian swing doors. This solution can also be used as a reactivation sensor on the approach side of low energy doors.

This superior technology generates 170 detection points across a single curtain, which allows LZR®-FLATSCAN SW to cover the entire face of a single door leaf including the hinge area.

Finger Detection Technology™ utilizes 100 detection points within the hinge area of the door, protecting hands and fingers while the door is in motion.

The LZR®-FLATSCAN 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.

FEATURES & BENEFITS

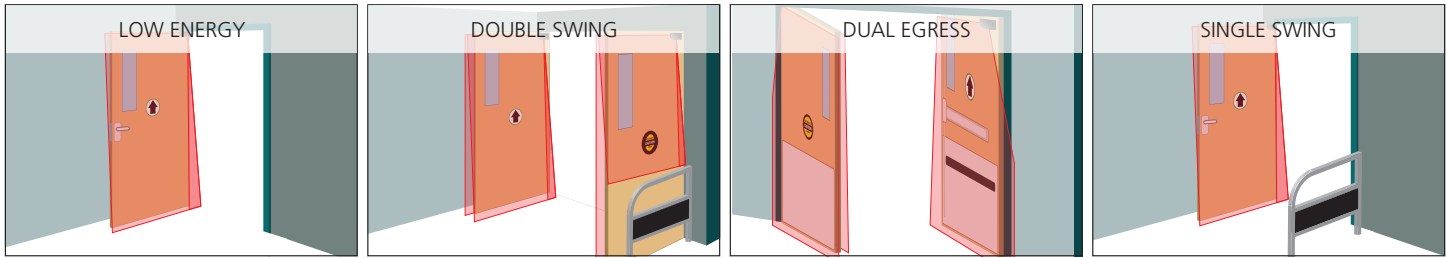
- LASER technology ensures independence of all types of flooring (pedi-mats, carpet, reflective flooring, wet surfaces, etc.) and the surrounding environment of the door (guiderails, walls, weather)
- Leading edge safety extends the detection area beyond the leading edge of the door for enhanced safety
- Easy door width programming using Hand Gesture Setup™ reduces configuration time
- LASER technology provides a reduced uncovered zone of down to 3/4 inch
- Hub-less system offers fewer components for easier setup and installation



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Customer Service: 800.523.2462
Technical Support: 800.407.4545
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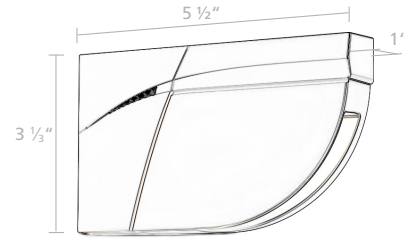
APPLICATIONS



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'), see Page 15 of Users Guide
Detection Area	
Door Leaf Safety	90°
Pinch Zone Safety	16°
Angular Resolution	
Door Leaf Safety	1.3°
Pinch Zone Safety	0.2°
Typ. Min. Object Size	
Door Leaf Safety	4" @ 13' (in proportion to object distance, DIP 2 = ON)
Pinch Zone Safety	¾" @ 13' (in proportion to object distance, DIP 2 = ON)
Emission Characteristics	
IR LASER	Wavelength 905 nm; max. output pulse power 25 W; Class 1
Supply Voltage	12 – 24 VDC ±15%
Power Consumption	≤ 2 W
Response Time	
Door Leaf Safety	max. 50 ms
Pinch Zone Safety	max. 90 ms
Test Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
Output	2 electronic relays (galvanic isolation - polarity free)
Door Leaf Safety	42 VAC / VDC
Pinch Zone Safety	100 mA
LED Signals	Red = swing side detection Green = approach side detection Yellow = error
Dimensions	5 ½" (W) × 3 ½" (H) × 1" (D) (mounting bracket adds ¼")
Material / Color	PC/ASA / Black, White or Silver
Tilt Angles	2 – 10° (without mounting bracket)
Degree of Protection	IP54 (EN 60529)
Temperature Range	-22 – 140 °F (if powered)
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Min. Door Leaf Speed	2° / s

DIMENSIONAL DRAWINGS



RELATED PRODUCTS



10LZRFLATSCAN-SWB
FULL ENERGY
KIT
(BLACK)



10LZRFLATSCAN-LELB
LOW ENERGY KIT
FOR LEFT DOOR LEAF
(BLACK)



10LZRFLATSCAN-LERB
LOW ENERGY KIT FOR
RIGHT DOOR LEAF
(BLACK)



NOTE: Kits and replacement sensors are available in black, white or silver.

10LZRFLATSCAN-SWB	Full energy swing door safety system, Black
10LZRFLATSCAN-SWW	Full energy swing door safety system, White
10LZRFLATSCAN-SWS	Full energy swing door safety system, Silver
10LZRFLATSCAN-LELB	Low energy safety system for left door mount, Black
10LZRFLATSCAN-LELW	Low energy safety system for left door mount, White
10LZRFLATSCAN-LELS	Low energy safety system for left door mount, Silver
10LZRFLATSCAN-LERB	Low energy safety system for right door mount, Black
10LZRFLATSCAN-LERW	Low energy safety system for right door mount, White
10LZRFLATSCAN-LERS	Low energy safety system for right door mount, Silver
10LZRFLATSCAN-LB	Left sensor, Black
10LZRFLATSCAN-LW	Left sensor, White
10LZRFLATSCAN-LS	Left sensor, Silver
10LZRFLATSCAN-RB	Right sensor, Black
10LZRFLATSCAN-RW	Right sensor, White
10LZRFLATSCAN-RS	Right sensor, Silver
70.5753	Spacer, Black
70.5752	Spacer, Silver
70.5751	Spacer, White
20.5416	Control harness
35.1329	Master / slave harness

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