

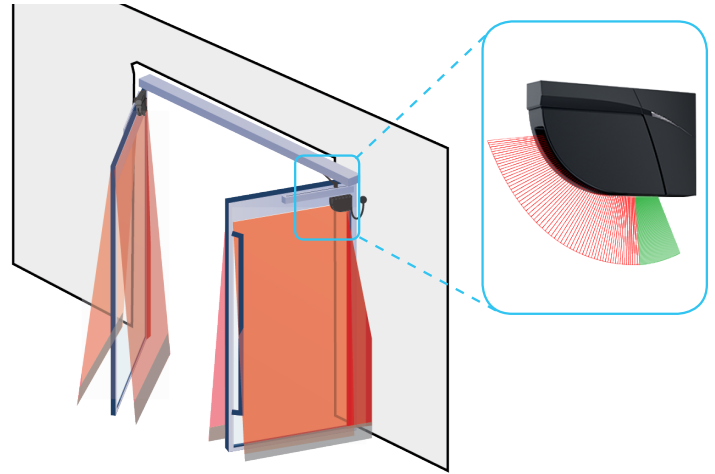
# LZR®-FLATSCAN SW

WWW.DOORSENSORS.COM

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.

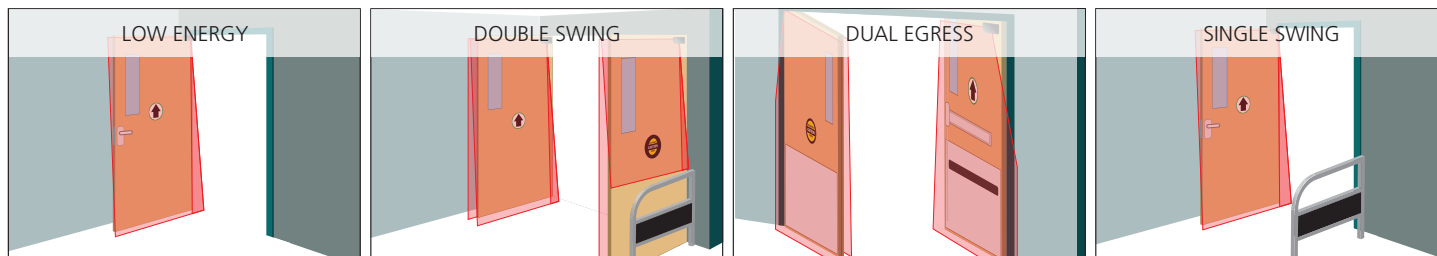
## FEATURES & BENEFITS

- 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 ¾ inch
- Hub-less system offers fewer components for easier setup and installation



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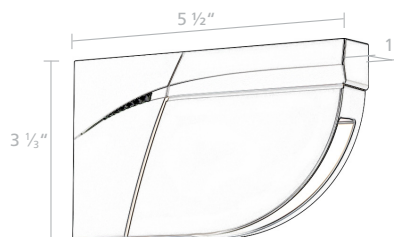
## APPLICATIONS



## 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'), see Page 15 of Users Guide
<b>Detection Area</b>	
Door Leaf Safety	90°
Pinch Zone Safety	16°
<b>Angular Resolution</b>	
Door Leaf Safety	1.3°
Pinch Zone Safety	0.2°
<b>Typ. Min. Object Size</b>	
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)
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; max. output pulse power 25 W; Class 1
<b>Supply Voltage</b>	12 – 24 VDC ±15%
<b>Power Consumption</b>	≤ 2 W
<b>Response Time</b>	
Door Leaf Safety	max. 50 ms
Pinch Zone Safety	max. 90 ms
<b>Test Input</b>	30 VDC (max. switching voltage) low < 1 V      high > 10 V (voltage threshold)
<b>Output</b>	2 electronic relays (galvanic isolation - polarity free)
Door Leaf Safety	42 VAC / VDC
Pinch Zone Safety	100 mA
<b>LED Signals</b>	Red = swing side detection Green = approach side detection Yellow = error
<b>Dimensions</b>	5 ½" (W) × 3 ⅓" (H) × 1" (D) (mounting bracket adds ¼")
<b>Material / Color</b>	PC/ASA / Black, White or Silver
<b>Tilt Angles</b>	2 – 10° (without mounting bracket)
<b>Degree of Protection</b>	IP54 (EN 60529)
<b>Temperature Range</b>	-22 – 140 °F (if powered)
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Min. Door Leaf Speed</b>	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.*

<b>10LZRFLATSCAN-SWB</b>	Full energy swing door safety system, Black
<b>10LZRFLATSCAN-SWW</b>	Full energy swing door safety system, White
<b>10LZRFLATSCAN-SWS</b>	Full energy swing door safety system, Silver
<b>10LZRFLATSCAN-LELB</b>	Low energy safety system for left door mount, Black
<b>10LZRFLATSCAN-LELW</b>	Low energy safety system for left door mount, White
<b>10LZRFLATSCAN-LELS</b>	Low energy safety system for left door mount, Silver
<b>10LZRFLATSCAN-LERB</b>	Low energy safety system for right door mount, Black
<b>10LZRFLATSCAN-LERW</b>	Low energy safety system for right door mount, White
<b>10LZRFLATSCAN-LERS</b>	Low energy safety system for right door mount, Silver
<b>10LZRFLATSCAN-LB</b>	Left sensor, Black
<b>10LZRFLATSCAN-LW</b>	Left sensor, White
<b>10LZRFLATSCAN-LS</b>	Left sensor, Silver
<b>10LZRFLATSCAN-RB</b>	Right sensor, Black
<b>10LZRFLATSCAN-RW</b>	Right sensor, White
<b>10LZRFLATSCAN-RS</b>	Right sensor, Silver
<b>70.5753</b>	Spacer, Black
<b>70.5752</b>	Spacer, Silver
<b>70.5751</b>	Spacer, White
<b>20.5416</b>	Control harness
<b>35.1329</b>	Master / slave harness
<b>70.5745</b>	Sentrex retrofit accessory

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