



LZR®-FLATSCAN SW

STAND ALONE, DOOR MOUNTED
SAFETY SENSOR FOR SWING DOORS



DESCRIPTION

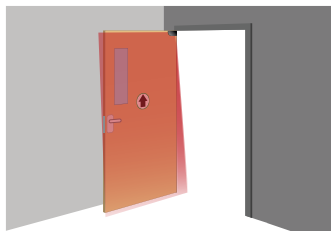
BEA's **LZR®-FLATSCAN SW** is a LASER-based Time-of-Flight presence sensor for use as a stand-alone safety sensor on automatic pedestrian swing doors. This solution can also be used as a reactivation sensor on the approach side of low energy doors.

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.

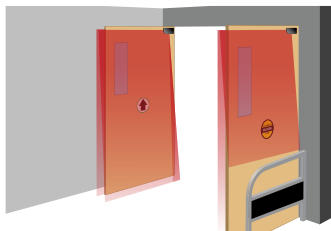
Finger Detection Technology™ utilizes 100 detection points within the hinge area of the door, protecting hands and fingers while the door is in motion.

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.

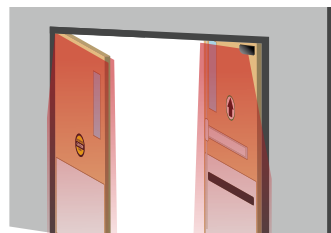
APPLICATIONS



Low Energy



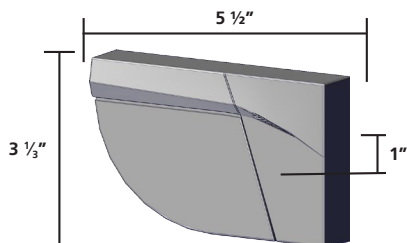
Simultaneous Pair



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) x 5' > max. (H) x 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	3/4" @ 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) Max. Switching Voltage 42 VAC / VDC Max. Switching Current 100 mA
LED Signals	
Red	Swing side detection
Green	Approach side detection
Yellow	Error
Dimensions	5 1/2" (W) x 3 1/2" (H) x 1" (D) (mounting bracket adds 1/4")
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
Norm Conformity	ISO 13849-1 PL "d"/ CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2; UL 10B/C Fire-Rated 1 hour (file #R39071) - <i>black material only</i>

* 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.

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