

LZR®-FLATSCAN SW

STAND-ALONE, DOOR MOUNTED SAFETY SENSOR FOR SWING DOORS



VIDEO

TECHNOLOGY











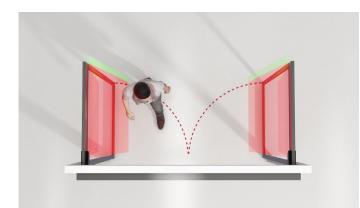
DESCRIPTION

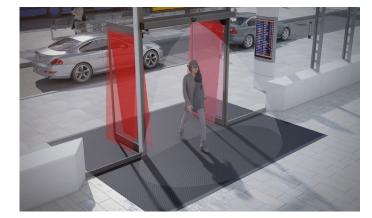
Watch the product video

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.





Background Independence

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

Leading edge safety extends the detection area beyond the leading edge of the door for enhanced safety

Hand Gesture Setup™

Easy door width programming using Hand Gesture Setup™ reduces configuration time

Reduced Components

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

Reduced Uncovered Zone

LASER technology provides a reduced uncovered zone of down to 3/4 inch

*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

Technology

Detection Mode

Detection Area Door Leaf Safety

Max. Detection Range

Pinch Zone Safety

Door Leaf Safety

Pinch Zone Safety

Pinch Zone Safety

Emission Characteristics

IR LASER

Supply Voltage

Response Time Door Leaf Safety

Test Input

LED Signals

Yellow

Dimensions

Tilt Angles

Humidity

Vibrations

Material / Color

Degree of Protection

Temperature Range

Min. Door Leaf Speed

Norm Conformity

Red Green

Output

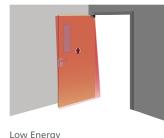
Power Consumption

Pinch Zone Safety

Max. Switching Voltage Max. Switching Current

Typ. Min. Object Size Door Leaf Safety

Angular Resolution



TECHNICAL SPECIFICATIONS



LASER scanner, Time-of-Flight measurement

 $4'' \otimes 13'$ (in proportion to object distance, DIP 2 = ON)

3/4" @ 13' (in proportion to object distance, DIP 2 = ON)

2 electronic relays (galvanic isolation - polarity free)

ISO 13849-1 Pl "d"/ CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2

high > 10 V (voltage threshold)

max. output pulse power 25 W; Class 1

30 VDC (max. switching voltage)

13' (diagonal) with reflectivity of 2% (e.g. at (W) × 5' > max. (H) × 12'), see Page 15 of Users Guide

Presence

90°

16°

1.3°

0.2°

< 2 W

max. 50 ms

max. 90 ms

low < 1 V

42 VAC / VDC

IP54 (EN 60529)

Swing side detection

Approach side detection

5 ½" (W) × 3 ½" (H) x 1" (D)

(mounting bracket adds 1/4")

-22 - 140 °F (if powered)

0-95% non-condensing

PC / ASA / Black, White or Silver

2 – 10° (without mounting bracket)

100 mA

Frror

< 2 G

2° / s

Wavelength 905 nm;

12 – 24 VDC ±15%



Single Swing

PRODUCT SERIES





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-LB	Left sensor, Black
10LZRFLATSCAN-LELB	Low energy safety system for left door mount, Black
10LZRFLATSCAN-LELS	Low energy safety system for left door mount, Silver
10LZRFLATSCAN-LELW	Low energy safety system for left door mount, White
10LZRFLATSCAN-LERB	Low energy safety system for right door mount, Black
10LZRFLATSCAN-LERS	Low energy safety system for right door mount, Silver
10LZRFLATSCAN-LERW	Low energy safety system for right door mount, White
10LZRFLATSCAN-LS	Left sensor, Silver
10LZRFLATSCAN-LW	Left sensor, White
10LZRFLATSCAN-RB	Right sensor, Black
10LZRFLATSCAN-RS	Right sensor, Silver
10LZRFLATSCAN-RW	Right sensor, White
10LZRFLATSCAN-SWB	Full energy swing door safety system, Black
10LZRFLATSCAN-SWS	Full energy swing door safety system, Silver
10LZRFLATSCAN-SWW	Full energy swing door safety system, White
10LZRFLATSCANGDA	Glass door accessory
20.5416	Control harness
35.0213	Replacement cover, Black, Left
35.0214	Replacement cover, Black, Right
35.0220	Replacement cover, White, Left
35.0221	Replacement cover, White, Right
35.0242	Replacement cover, Silver, Left
35.0243	Replacement cover, Silver, Right
35.1329	Primary / secondary harness
70.5745	Sentrex retrofit accessory
70.5751	Spacer, White
70.5752	Spacer, Silver
70.5753	Spacer, Black

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