

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



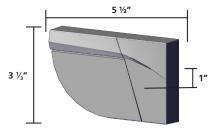
Simultaneous Pair



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) × 5' > max. (H) × 12'), see Page 15 of Users Guide
Detection Area Door Leaf Safety Pinch Zone Safety	90° 16°
Angular Resolution Door Leaf Safety Pinch Zone Safety	1.3° 0.2°
Typ. Min. Object Size Door Leaf Safety Pinch Zone Safety Emission Characteristics IR LASER	4" @ 13' (in proportion to object distance, DIP 2 = ON) 34" @ 13' (in proportion to object distance, DIP 2 = ON) Wavelength 905 nm;
Supply Voltage	max. output pulse power 25 W; Class 1 12 – 24 VDC ±15%
Power Consumption	≤ 2 W
Response Time Door Leaf Safety Pinch Zone Safety	max. 50 ms max. 90 ms
Test Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
Output Max. Switching Voltage Max. Switching Current	2 electronic relays (galvanic isolation - polarity free 42 VAC / VDC 100 mA
LED Signals Red Green Yellow	Swing side detection Approach side detection Error
Dimensions	$5 \frac{1}{2}$ " (W) × $3 \frac{1}{3}$ " (H) x 1" (D) (mounting bracket adds $\frac{1}{4}$ ")
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 PI "d"/ CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2

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