

Flatscan Sensor

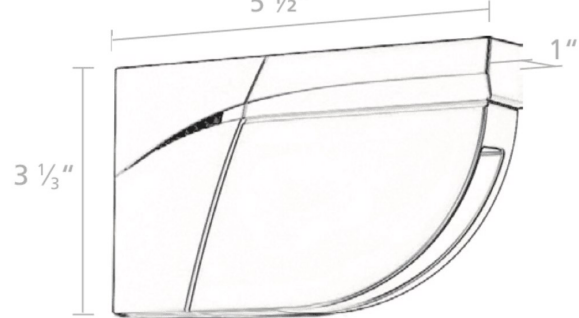
(p/n 11715)



The easy-to-install 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.



Features

Leading edge safety

Detection area extends 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 uncovered zone

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

Reduced components

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

Technical Features

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')
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	Wavelength 905 nm
IR Laser	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 ⅓" (H) × 1" (D) (mounting bracket adds ¼")
Tilt Angles	2 – 10° (without mounting bracket)
Degree of Protection	IP54 (EN 60529)
Temperature Range / Humidity	-22 – 140 °F (if powered) / 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