



# LZR®-FLATSCAN W

SAFETY SENSOR FOR AUTOMATED WINDOWS

## LEARN MORE



click or scan

## TECHNOLOGY



## DESCRIPTION

BEA's **LZR-FLATSCAN W** is a LASER-based, Time-of-Flight sensor with background analysis that secures automated windows.

A single sensor can generate 400 measurement points, providing complete protection for hands and fingers during the closing process.



### Full Coverage of the Window

Pattern covers the entire window – including the inner frame borders – up to 13 feet

### Easy and Flexible Mounting

Universal mounting base offers flexible installation and allows a variety of positions to suit niche application needs



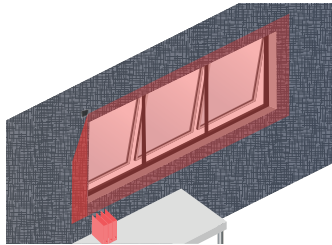
### Quick and Intuitive Configuration

The detection field size is defined by a simple hand movement; height and width of the field are automatically calculated

### Virtual Push Button

One or both virtual push buttons can be programmed to activate the opening or closing of the window

## APPLICATIONS



Windows



Drive-thru Windows

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, time-of-flight measurement, background analysis
<b>Detection mode</b>	Presence
<b>Max. detection range</b>	13' (diagonal) (e.g. @ 40' width, max. height is 16')
<b>Number of curtains</b>	1
<b>Measurement points</b>	400
<b>Angular resolution</b>	0.27°
<b>Angular coverage</b>	110°
<b>Min. object size</b>	3/4" (depending on the settings and the installation)
<b>Optical characteristics</b>	IR LASER, Class 1 wavelength: 905 nm output power: < 0.1mW
<b>Supply voltage</b>	12 – 24 VDC ±15%  <i>The equipment must be powered by a SELV limited power source ensuring double insulation between primary voltages and the Equipment supply.</i>  <i>The supply current should be limited to 1.5A.</i>
<b>Power consumption</b>	≤ 2 W
<b>Typ. response time</b>	400 ms
<b>Peak current at power-on</b>	0.8A (max. 20 ms @ 24 VDC)
<b>Cable length</b>	16.4'
<b>Output</b>	2 solid state relays (galvanic isolation - polarity free) max. switching voltage 42 VAC/VDC max. switching current 100 mA
<b>Input</b>	1 optocoupler (galvanic isolated - polarity free) max. contact voltage 30 V DC (over-voltage protected) voltage threshold Log. H: >8 VDC Log. L: <3 VDC
<b>LED signals</b>	1 tri-colored LED: detection/output status
<b>Dimensions</b>	5 3/8" (L) × 3 1/32" (H) × 1 1/8" (D) (mounting base adds 1/2")
<b>Material / Color</b>	PC, ASA / black
<b>Tilt angles</b>	-2 – 6° (with mounting base) 2 – 10° (without mounting base)
<b>Protection degree</b>	IP54
<b>Temperature range</b>	-22 – 140 °F if powered 14 – 140 °F without power
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Compliance</b>	IEC 60335-2-103 ISO 13849-1 (PL "d"); IEC 61508 (SIL2)

## PRODUCT SERIES



**10LZRFLATSCAN-WLB**  
Safety sensor for automated windows (left)



**10LZRFLATSCAN-WRB**  
Safety sensor for automated windows (right)

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