![BEA logo]

LZR®-FLATSCAN W

SAFETY SENSOR FOR AUTOMATED WINDOWS

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TECHNOLOGY

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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
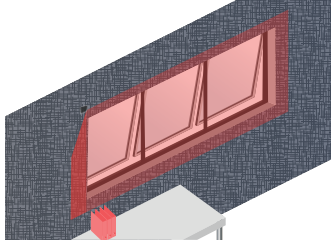
Quick and Intuitive Configuration

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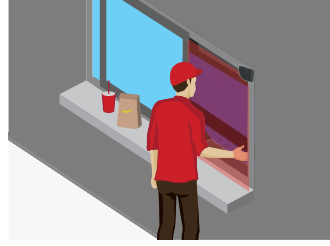
Virtual Push Button

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

Technology	LASER scanner, time-of-flight measurement, background analysis
Detection mode	Presence
Max. detection range	13' (diagonal) (e.g. @ 40' width, max. height is 16')
Number of curtains	1
Measurement points	400
Angular resolution	0.27°
Angular coverage	110°
Min. object size	¾" (depending on the settings and the installation)
Optical characteristics	IR LASER, Class 1 wavelength: 905 nm output power: < 0.1mW
Supply voltage	12 – 24 VDC ±15%
	The equipment must be powered by a SELV limited power source ensuring double insulation between primary voltages and the Equipment supply.
	The supply current should be limited to 1.5A.
Power consumption	≤ 2 W
Typ. response time	400 ms
Peak current at power-on	0.8A (max. 20 ms @ 24 VDC)
Cable length	16.4'
Output max. switching voltage max. switching current	2 solid state relays (galvanic isolation - polarity free) 42 VAC/VDC 100 mA
Input max. contact voltage voltage threshold	1 optocoupler (galvanic isolated - polarity free) 30 V DC (over-voltage protected) Log. H: >8 VDC Log. L: <3 VDC
LED signals	1 tri-colored LED: detection/output status
Dimensions	5 ⅗" (L) × 3 ¹¹⁄₃₂" (H) × 1 ⅓" (D) (mounting base adds ½")
Material / Color	PC, ASA / black
Tilt angles	-2 – 6° (with mounting base) 2 – 10° (without mounting base)
Protection degree	IP54
Temperature range	-22 – 140 °F if powered 14 – 140 °F without power
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Compliance	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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