



# LZR®-FLATSCAN W

Safety sensor for automated windows



## APPLICATIONS



## TECHNOLOGY

Laser

## DESCRIPTION

The **LZR®-FLATSCAN W** is a laser sensor that combines the time-of-flight technology and background analysis to secure automated windows. A single module generates 400 measurement points to provide a complete protection of hands and fingers during closing process.

## VIDEO



Discover the product video on our youtube channel **BEA Sensors Europe**  
<https://bit.ly/2G4KKjO>



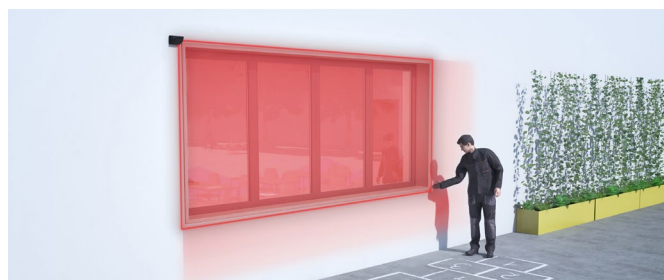
### Full coverage of the window

The **LZR®-FLATSCAN W** covers the entire window, including the inner frame borders up to distances of 4m.



### Easy and flexible mounting

Its universal mounting base offers major flexibility in terms of installation and allows various positions according to the use and type of window.



### Quick and intuitive configuration

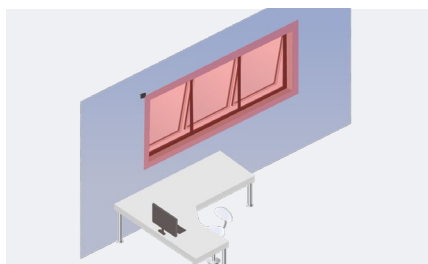
The size of the detection field is defined by a simple hand movement. The height and width of the zone are automatically calculated.



### Virtual push button

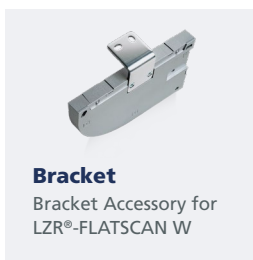
Optionally, one or two push buttons can be defined to activate the opening or closing of the window.

## APPLICATIONS



Full coverage of the window

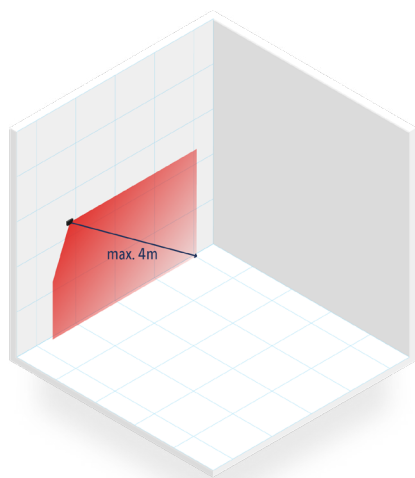
## ACCESSORIES



### Bracket

Bracket Accessory for LZR®-FLATSCAN W

## TECHNICAL SPECIFICATIONS



<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection mode</b>	Presence
<b>Max. detection range</b>	4m (diagonal) with reflectivity of 2% (i.e.: at W=3.7m -> max. H=1.5m)
<b>Number of curtains</b>	1
<b>Measurement points</b>	400
<b>Angular resolution</b>	0.27°
<b>Angular coverage</b>	108°
<b>Min. detected object size</b>	2cm (depending on the settings)
<b>Optical characteristics</b>	IR Laser
	Wavelength 905nm; max. output pulse power 25 W; Class 1
<b>Supply voltage</b>	12-24 V DC ± 15%
<b>Power consumption</b>	≤ 2W
<b>Typ. response time</b>	400 ms
<b>Peak current at power-on</b>	0.8 A (max. 20 ms @ 24 VDC)
<b>Output</b>	2 solid state relays (galvanic isolation - polarity free)
Max. switching voltage	42V AC/DC
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 V DC; Log. L: <3 V DC
<b>Dimensions</b>	142 mm (L) × 85 mm (H) × 33 mm (D) (Mounting base + 14 mm)
<b>Tilt angles</b>	-2° to +6° (with mounting base) +2° to +10° (without mounting base)
<b>Protection degree</b>	IP54
<b>Temperature range</b>	-30°C to +60°C if powered; -10°C to +60°C without power
<b>Humidity</b>	0-95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Conformity</b>	This product conforms to all applicable European Union legislation. Please refer to the Declaration of Conformity for further information.

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