# 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

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

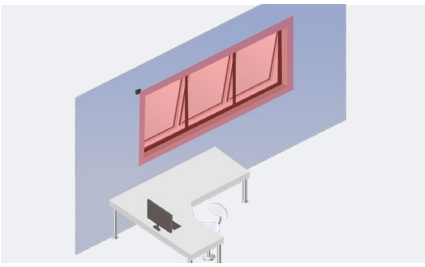
### Quick and intuitive configuration

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 cans be defined to activate the opening or closing of the window.

## APPLICATIONS

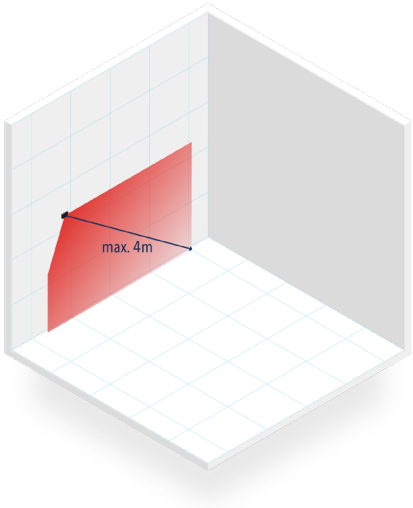


Full coverage of the window

## ACCESSORIES

**Bracket**
Bracket Accessory for
LZR®-FLATSCAN W

## TECHNICAL SPECIFICATIONS




| | |
|---|---|
| **Technology** | LASER scanner, time-of-flight measurement |
| **Detection mode** | Presence |
| **Max. detection range** | 4m (diagonal) with reflectivity of 2% (i.e.: at W=3.7m -> max. H=1.5m) |
| **Number of curtains** | 1 |
| **Measurement points** | 400 |
| **Angular resolution** | 0.27° |
| **Angular coverage** | 108° |
| **Min. detected object size** | 2cm (depending on the settings) |
| **Optical characteristics**<br>IR Laser | <br>Wavelength 905nm; max. output pulse power 25 W; Class 1 |
| **Supply voltage** | 12-24 V DC ± 15% |
| **Power consumption** | ≤ 2W |
| **Typ. response time** | 400 ms |
| **Peak current at power-on** | 0.8 A (max. 20 ms @ 24 VDC) |
| **Output**<br>Max. switching voltage<br>Max. switching current | 2 solid state relays (galvanic isolation - polarity free)<br>42V AC/DC<br>100 mA |
| **Input**<br>Max. contact voltage<br>Voltage threshold | 1 optocoupler (galvanic isolated - polarity free)<br>30 V DC (over-voltage protected)<br>Log. H: >8 V DC; Log. L: <3 V DC |
| **Dimensions** | 142 mm (L) × 85 mm (H) × 33 mm (D) (Mounting base + 14 mm) |
| **Tilt angles** | -2° to +6° (with mounting base)<br>+2° to +10° (without mounting base) |
| **Protection degree** | IP54 |
| **Temperature range** | -30°C to +60°C if powered; -10°C to +60°C without power |
| **Humidity** | 0-95% non-condensing |
| **Vibrations** | < 2 G |
| **Conformity** | This product conforms to all applicable European Union legislation. Please refer to the Declaration of Conformity for further information. |







**BEA** s.a. / LIEGE Science Park / Allée des Noisetiers 5 / 4031 Angleur • BELGIUM
**T** +32 (0)4 361 65 65 / **F** +32 (0)4 361 28 58 / **E** info@bea.be