

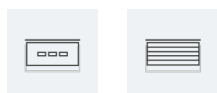


# LZR®-FLATSCAN I

Laser sensor for industrial doors



## APPLICATIONS



## TECHNOLOGY

Laser

## CONFORMITY

EN 12453

## DESCRIPTION

The **LZR®-FLATSCAN I** is a compact, single-curtain, LASER-based sensor designed for use on automatic industrial doors. The precise laser technology ensures accurate detection of people and vehicles across the 5,5 m x 5,5 m detection field, in both indoor and outdoor environments. Thanks to the robust, IP66 rated, metal enclosure, it is suited for industrial and other harsh environments.



### Versatile sensor orientation

Left or right sensor mounting allows for convenient sensor installation based on application needs.



### Flexible mounting height

The sensor can be installed from 2.5 m up to 5.5 m to be compliant with EN 12453.



### Reduced unwanted detections

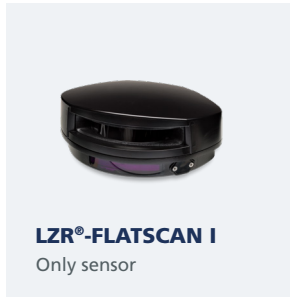
Fog filter and additional immunity settings allow for field adjustments to reduce environmental interferences.



### Compact & robust design

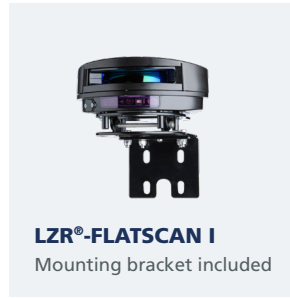
Metal enclosure and IP66 rating protects sensor in harsh environments. The low-profile solution can be easily fitted in narrow spaces.

## VERSIONS



### LZR®-FLATSCAN I

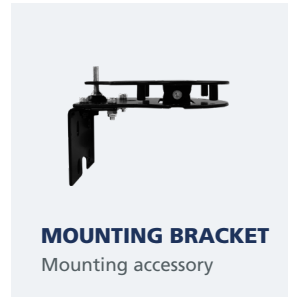
Only sensor



### LZR®-FLATSCAN I

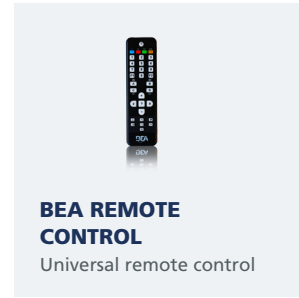
Mounting bracket included

## ACCESSORIES



### MOUNTING BRACKET

Mounting accessory



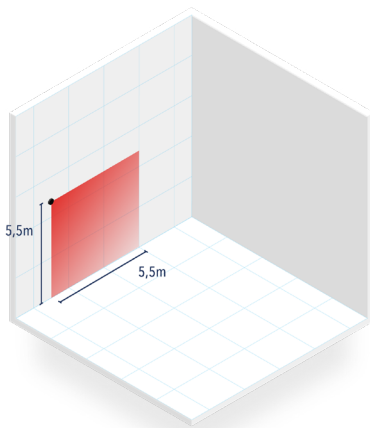
### BEA REMOTE CONTROL

Universal remote control

## INSTALLATION

- Three visible LED spots provide accurate reference points to help adjusting the tilt angle.
- Left or right sensor mounting allows for convenient sensor installation based on application needs
- Parameter adjustments by remote control

## TECHNICAL SPECIFICATIONS



<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection mode</b>	Presence
<b>Max. detection range</b>	Max. 5.5m*5.5m (4m@5% reflectivity)
<b>Field of view</b>	90°
<b>Angular resolution</b>	0.23° (400 spots within 90°)
<b>Optical characteristics</b> (IEC/EN 60825-1)	Wavelength 905nm; output power < 0.1 mW ; CLASS 1 Wavelength 635nm; output power < 1 mW ; CLASS 2 - Visible spot
<b>Supply voltage</b>	12-24V DC ± 15%
<b>Power consumption</b>	≤ 2.3W, peak current: 1A
<b>Response time</b>	Max. 50ms + output activation delay
<b>Output*</b>	1 opto (galvanic isolation - polarity free) Max. switching voltage: 30V AC/ 42V DC Max. switching current: 100mA 1 Relay (free of potential contact) Max. contact voltage: 30V AC/ 42V DC Max. contact current: 1A (resistive) Max. switching power: 30W DC/60VA AC
<b>LED-signals</b>	1 tri-colored LED: detection / output status
<b>Dimensions</b>	124mm (L) × 90mm (H) × 50mm (D) (without bracket)
<b>Colour</b>	Black
<b>Tilt angles</b>	±3° (with bracket)
<b>Protection degree</b>	IP66 (IEC/EN 60529)
<b>Temperature range</b>	-30°C to +60°C if powered
<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.

Specifications are subject to change without prior notice. All values are measured in specific conditions.

\*External electrical sources must be within specified voltages and ensure double insulation from primary voltages.

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