



# LZR®-i100/i110

Safety sensor for industrial doors



## APPLICATIONS



## TECHNOLOGY

Laser

## CONFORMITY



## DESCRIPTION

The **LZR®-i100 / i110** works according to the principle of time of flight. This high-precision technology and the dynamic orientation of the LASER beams on 4 planes offer optimal safety in the door threshold and its proximity. The sensor is adapted to industrial environments and has a max. detection range of 9.9 m x 9.9 m.

## VIDEO



Discover the product video on our youtube channel **BEA Sensors Europe**  
<https://bit.ly/2VV6fsJ>



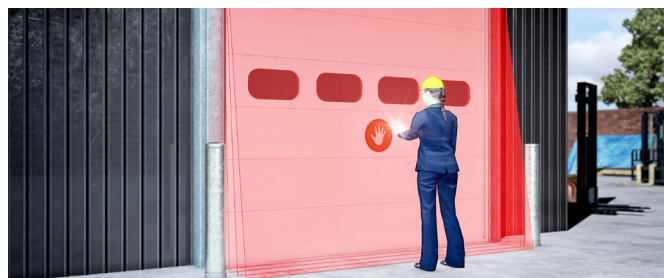
### Two separate detection areas

Safety at the opening and the closing of the door thanks to 2 separate detection areas.



### Optimized for industrial environments

IP65, 10 m cable, filters door leaf deformation by wind force, filters door vibrations and environmental interferences.



### Virtual push buttons

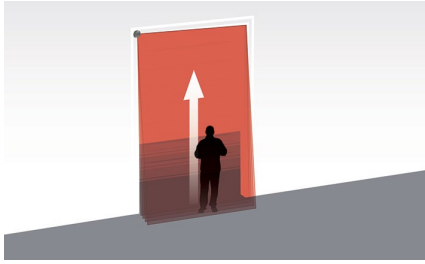
Possibility to create 2 virtual push buttons to open the door.



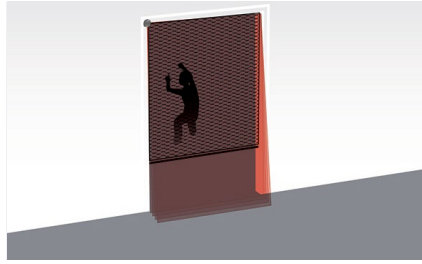
### Alternative

Replaces the current solutions such as contact edges, light beams and lightgrids.

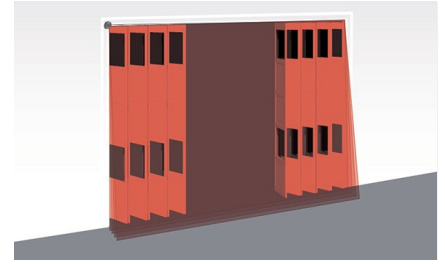
## APPLICATIONS



Premium safety solution for industrial doors



On rolling doors



On folding doors

## ACCESSORIES



### BEA REMOTE CONTROL

Universal remote control for the adjustments of our sensors



### LZR®-BA

Bracket Accessory for LZR range



### LZR®-WIDESCAN BA

Accessory for alternative mounting (ceiling, wall)

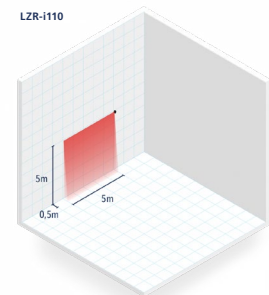
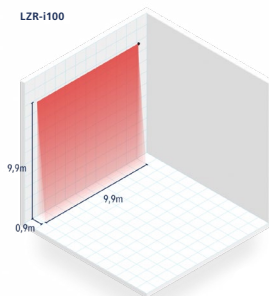
## INSTALLATION

- Easy positioning of the detection field thanks to 3 visible LASER beams.
- Automatic teach-in of the door dimensions.
- Various settings via BEA's remote control.
- Cable of 10 m provided.

## VERSIONS

- LZR-i100 : max. detection range 9.9 m x 9.9 m
- LZR-i110 : max. detection range 5 m x 5 m

## TECHNICAL SPECIFICATIONS



<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Max. detection range</b>	
LZR-i100	9.9 m x 9.9 m
LZR-i110	5 m x 5 m
<b>Emission characteristics</b>	
LASER infrarouge (CLASS 1)	Wavelength 905 nm; max. output pulse power 75 W
LASER rouge visible (CLASS 3R)	Wavelength 650 nm; max. output CW power 3 mW
<b>Supply voltage</b>	10-35V DC @ sensor terminal
<b>Power consumption</b>	< 5 W
<b>Response time</b>	Typ. 20 ms; max. 80 ms
<b>Output</b>	2 electronic relays ( galvanic isolation - polarity free )
Max. switching voltage	35V DC / 24V AC
Max. switching current	80 mA (resistive)
<b>Dimensions</b>	125 mm (L) x 93 mm (D) x 70 mm (H) ( mounting bracket + 14 mm )
<b>Material / Colour</b>	PC/ASA - Black / White
<b>Protection degree</b>	IP65
<b>Temperature range</b>	-30 °C to +60 °C if powered
<b>Vibrations</b>	< 2 G
<b>Norm conformity</b>	EN 12453: 2000 chapter 5.1.1.6, chapter 5.5.1 Safety device E; EN 12978: 2009; EN ISO 13849-1: 2008 Pl "d"/ CAT2; EN 60529: 2001; IEC 60825-1: 2007; EN 60950-1: 2005; EN 61000-6-2: 2005; EN 61000-6-3: 2006; IEC 61496-1: 2009; EN 61496-3: 2008 ESPE Type 2; EN 62061: 2005 SIL 2; DIN 18650-1: 2010 Chapter 5.7.4

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WWW.BEASENSORS.COM



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-eu@beasensors.com

A Halma company