



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/2PpiFmG>



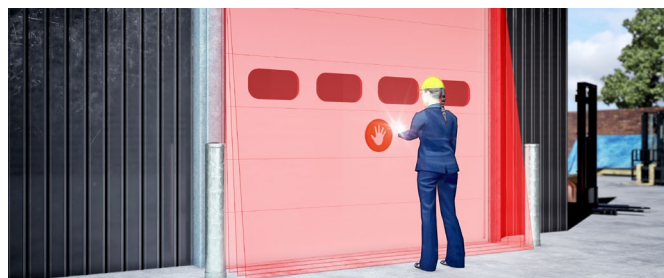
Two separate detection areas

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

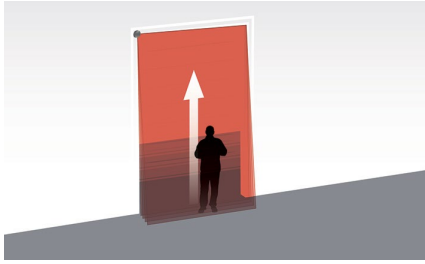
Possibility to create 2 virtual push buttons to open the door.



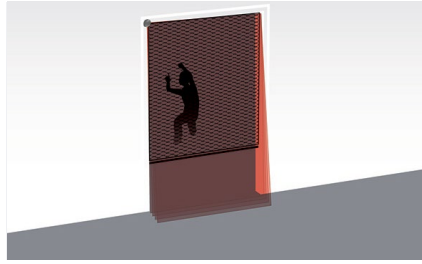
Alternative

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

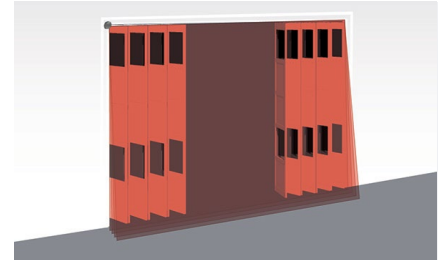
APPLICATIONS



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)

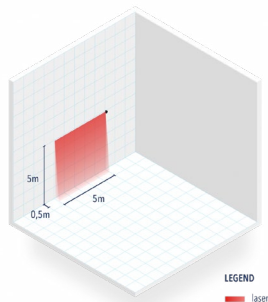
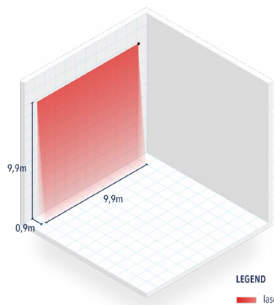
INSTALLATION

- 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



Technology

LASER scanner, time-of-flight measurement

Max. detection range

LZR-i100 9.9 m x 9.9 m
LZR-i110 5 m x 5 m

Emission characteristics

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

Supply voltage

10-35V DC @ sensor terminal

Power consumption

< 5 W

Response time

Typ. 20 ms; max. 80 ms

Output

2 electronic relays (galvanic isolation - polarity free)
Max. switching voltage 35V DC / 24V AC
Max. switching current 80 mA (resistive)

Dimensions

125 mm (L) x 93 mm (D) x 70 mm (H) (mounting bracket + 14 mm)

Material / Colour

PC/ASA - Black / White

Protection degree

IP65

Temperature range

-30 °C to +60 °C if powered

Vibrations

< 2 G

Norm conformity

This product conforms to all applicable European Union legislation. Please refer to the Declaration of Conformity for further information.

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