



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>



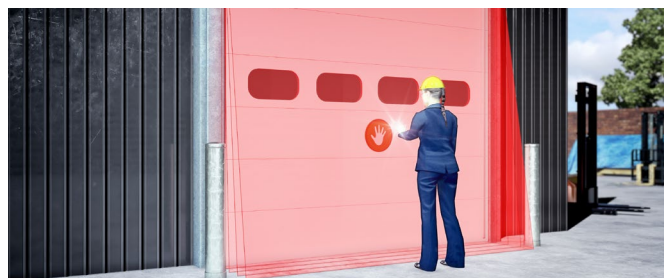
Two separate detection areas

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 vibrations and environmental interferences.



Virtual opening buttons

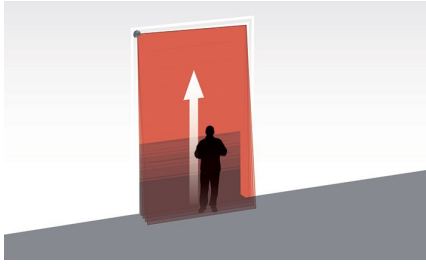
Possibility to create 2 virtual push buttons to open the door.



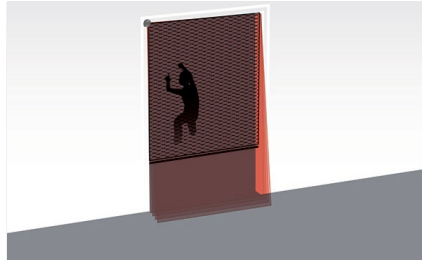
Alternative

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

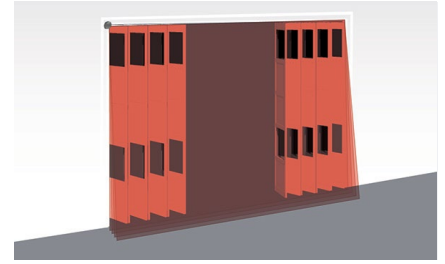
APPLICATIONS



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 ranges

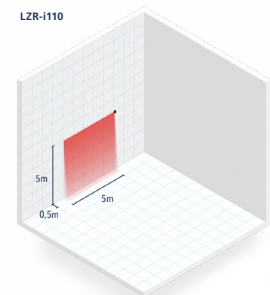
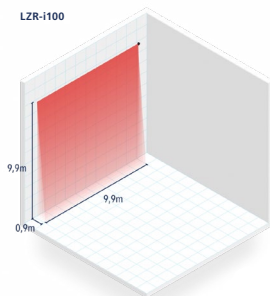
INSTALLATION

- 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	
IR LASER (CLASS 1)	Wavelength 905 nm; output power <0.10 mW
Red visible LASER (CLASS 2)	Wavelength 635 nm; output power <1 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	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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