

APPLICATIONS

DESCRIPTION

range of 9.9 m x 9.9 m.

Safety sensor for industrial doors



CONFORMITY



VIDEO



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



TECHNOLOGY

Laser

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

Two seperate 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

ACCESSORIES



On rolling doors

VERSIONS



On folding doors



Universal remote control for the adjustments of our sensors





• LZR-i100 : max. detection range 9.9 m x 9.9 m

• LZR-i110 : max. detection range 5 m x 5 m

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.

TECHNICAL SPECIFICATIONS



Technology	LASER scanner, time-of-flight measurement
Max. detection range	
LZR-i100	9.9 m × 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) × 93 mm (D) × 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 PI "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

DISCLAIMER Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. BEA has the right without liability to change descriptions and specifications at any time.

WWW.BEASENSORS.COM



A Halma company