LZR®-WIDESCAN

Opening, presence & safety sensor
for industrial doors

APPLICATIONS

TECHNOLOGY

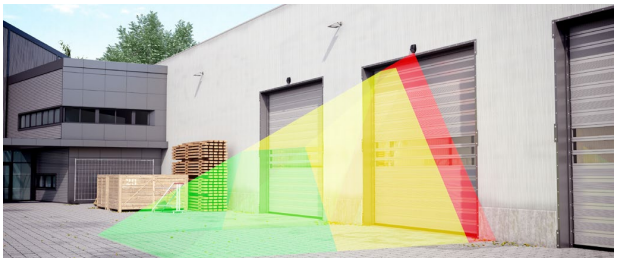
Laser

DESCRIPTION

The **LZR®-WIDESCAN** sensor uses laser technology, based on analysis of time of flight. By generating 7 tilted laser curtains, the sensor creates a volumetric area in front of the door. One device offers 3 main functions: opening the door, area surveillance in front of the door and additional people protection in the door threshold area. Moreover, it not only optimizes traffic flow and energy savings, but also increases door protection and user comfort.

VIDEO

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



Volumetric coverage

Thanks to the precise distance measurement of the laser technology, the sensor generates a 3D detection field, which enables the exact calculation of object dimensions, speed and direction.

Door protection

The **LZR®-WIDESCAN** becomes your doorkeeper and protects your investment. It detects approaching or parked vehicles accurately in order to prevent any contact with the door.

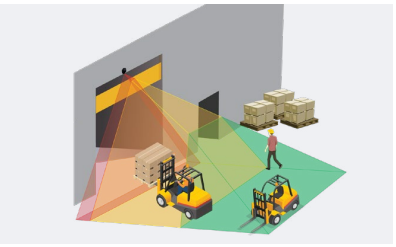
Energy savings

The object profiling enables filtering out parallel traffic, ignoring pedestrians and optimizing the opening height of the door if desired. Furthermore, the virtual pull cord can be used for intentional activation. Therefore the door only opens when needed.

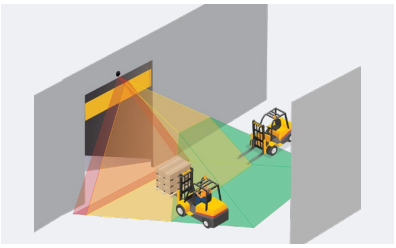
Independent of floor and environment

The laser technology offers a high level of independence when confronted with weather conditions such as rain, snow, fog, etc.

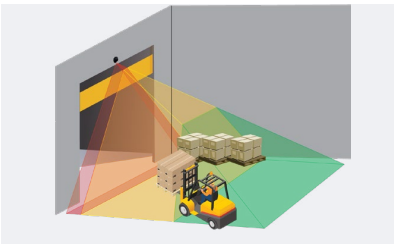
APPLICATIONS



Standard with pedestrian door



Corridor



Corner

ACCESSORIES

UNIVERSAL MOUNTING BA
Universal mounting bracket

LZR®-WIDESCAN BA
Bracket accessory

LZR®-WIDESCAN RETROFIT ADAPTER
Retrofit accessory

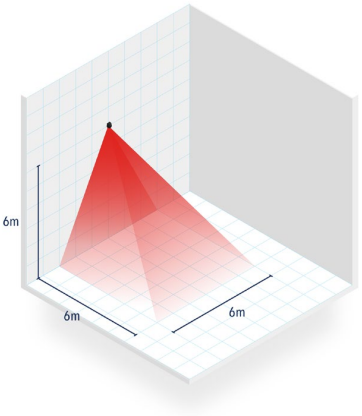
INSTALLATION

- Two visible spots to help aligning the detection fields
- Intuitive configuration via app (available soon)
- Flexible detection fields that can be adapted to any environment

PERFORMANCE

- Analysis of object direction, dimensions and speed.
- Independent of the object material, colour & reflectivity
- Ideal alternative for induction loops
- High protection degree and sealed industrial connector

TECHNICAL SPECIFICATIONS



Technology	LASER scanner, time-of-flight measurement
Max. detection field	Width: 1 x mounting height; Depth: 1 x mounting height (adjustable and depending on user settings)
Typ. mounting height	2 m to 10 m (max. 6 m for optimal safety detection)
Emission characteristics	IR LASER: Wavelength 905 nm; max. output pulse power 25 W; Class 1 Visible LASER: Wavelength 650 nm; max. output CW power 3 mW; Class 3R
Supply voltage	12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10% @ sensor terminal
Power consumption	heating off: < 2.5 W; heating auto: typ. < 10 W, max. 15 W
Response time	Typ. 80 ms; max. 800 ms
Outputs	2 solid-state relays (galvanic isolation - polarity free) 30 V DC (max. switching voltage) - 100 mA (max. switching current) - in switching mode: NO/NC - in frequency mode: pulsed signal (f= 100 Hz +/- 10%) 1 electro-mechanical relay (galvanic isolation - polarity free) 42 V AC (max. switching voltage) - 500 mA (max. switching current)
Test input	30 V DC (max. switching voltage) - low < 1 V, high > 10 V (voltage threshold)
Dimensions	200 mm (H) x 150 mm (W) x 100 mm (D) (approx.)
Material / Colour	PC/ASA / Black
Protection degree	IP65
Temperature range	-30 °C to +60 °C
Vibrations	< 2 G
Conformity	EN 61000-6-2; EN 61000-6-3; EN 60950-1; EN 60825-1; EN 50581