



LZR®-WIDESCAN

Laser sensor
for industrial doors



APPLICATIONS



TECHNOLOGY

Laser

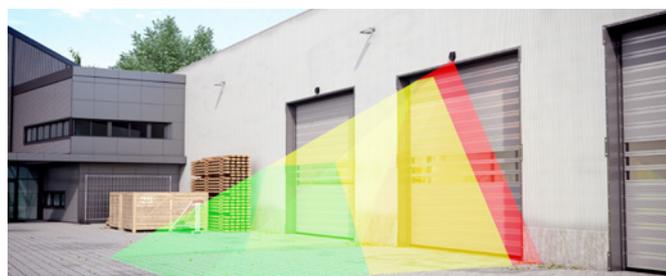
DESCRIPTION

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. The sensor is easy to install thanks to an intuitive app.

VIDEO



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



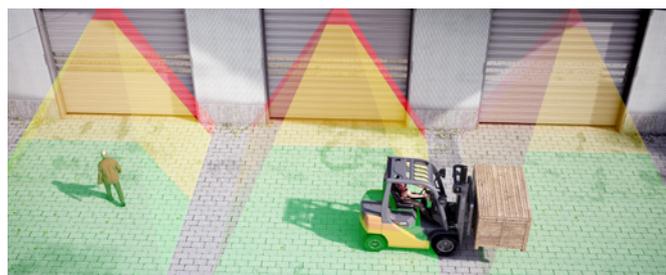
Volumetric coverage

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.



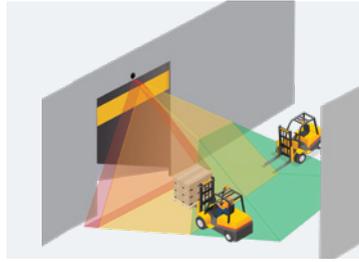
Independent of floor and environment

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

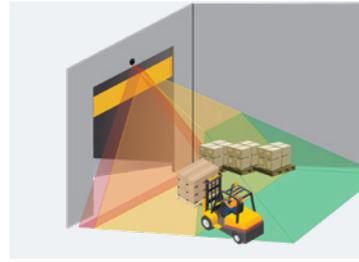
APPLICATIONS



Standard with pedestrian door

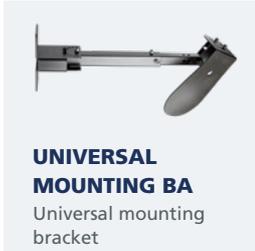


Corridor



Corner

ACCESSORIES

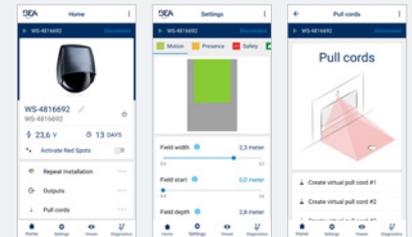


INSTALLATION

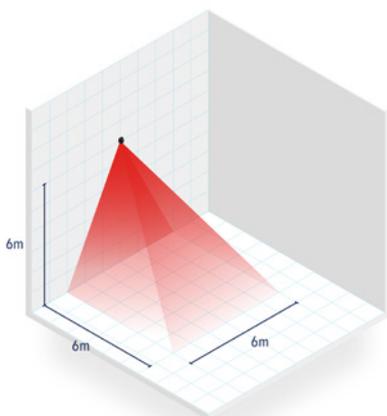
- Intuitive configuration via app
- Two visible spots help aligning the detection fields
- Flexible detection fields that can be adapted to any environment
- Plug & play installation without road works

APP

Download the LZR Widescan app on the Apple App Store and Google Play Store.



TECHNICAL SPECIFICATIONS



Technology	LASER scanner, time-of-flight measurement (7 curtains)
Detection field	Width: 1 x mounting height; Depth: 1 x mounting height (minimum)
Mounting height	2 m to 10 m
Optical characteristics IEC/EN 60825-1:2014	IR LASER: Wavelength 905 nm; output power <0.1 mW; Class 1 Visible LASER: Wavelength 635 nm; output power <1 mW; Class 2
Supply voltage	12 V - 24 V AC -10%/+20% ; 12 V - 30 V DC -10%/+20% @ sensor terminal
Power consumption	heating off: < 2.5 W; heating auto: typ. < 10 W, max. 15 W
Response time	Typ. 230 ms; max. 800 ms (depending on immunity settings)
Outputs	2 solid-state relays (galvanic isolation - polarity free) 24 V AC/ 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 DC/AC peak (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	208 mm (H) x 159 mm (W) x 127 mm (D)
Material / Colour	PC/ASA / Black
Protection degree	IP65
Temperature range	-30 °C to +60 °C

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