



# LZR®-WIDESCAN

MOTION, PRESENCE & SAFETY SENSOR  
FOR INDUSTRIAL DOORS



## LEARN MORE



click or scan

## TECHNOLOGY



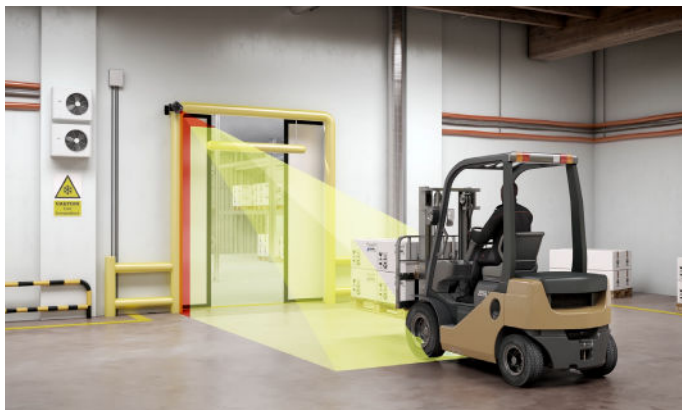
### DESCRIPTION

BEA's **LZR®-WIDESCAN** is a LASER-based, Time-of-Flight sensor used for motion, safety and presence detection in a variety of industrial door applications. This highly-configurable solution offers the benefits of activation and safety, while reducing installation time.

This IP65 rated sensor creates a volumetric detection area by generating seven angled LASER curtains. It has the ability to detect objects based on direction, speed, object size and height.

The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.

Easily configure sensor settings with the **LZR®-WIDESCAN** mobile app. The mobile app provides a complete view of sensor settings, from field configurations to immunity.



### Easy Setup

Utilize mobile app to easily configure sensor settings (available on the Apple App Store & Google Play Store)

### Energy-Efficient

Promotes energy savings by reducing false detections / unnecessary door cycling, helping to regulate HVAC

### Virtual Pull-Cord

Virtual pull-cord function can differentiate between pedestrian and vehicle traffic and can provide pulse-on-stop activation

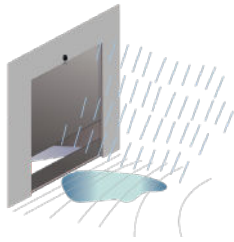
### Alternative Solution

Ideal for replacing costly / labor-intensive induction loop and pull-cord solutions

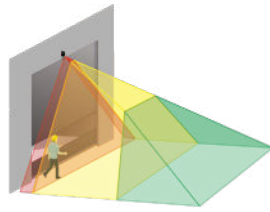
### Visible Spots

Two visible LASER alignment spots ensure accurate pattern placement

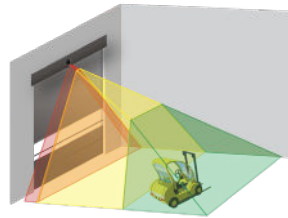
## APPLICATIONS



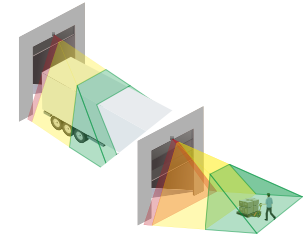
Dynamic Ground Conditions



Pedestrian Safety



Directionality



Full-Open / Partial-Open

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
<b>Detection Mode</b>	Motion, presence, height, and speed
<b>Max. Detection Field</b>	Width / Depth 1.2 x mounting height (adjustable depending on user settings)
<b>Thickness of First Curtain</b>	1/4"
<b>Typ. Mounting Height</b>	6'6" – 32'
<b>Typ. Minimum Object Size</b>	6" @ 19'6" (in proportion to object distance)
<b>Test Body Dimensions</b>	27 1/2" x 11 3/4" x 7 3/4"
<b>Min. Reflectivity Factor</b>	> 2% (of floor and object) (measured at max. 19'6" in safety field)
<b>Emission Characteristics</b>	IR LASER Wavelength 905 nm; output power 0.10 mW (CLASS 1) Red Visible LASER Wavelength 635 nm; output power 0.95 mW (CLASS 2)
<b>Supply Voltage</b>	12 – 24 VAC -10/+20% 12 – 30 VDC ±10% @ sensor terminal
<b>Power Consumption</b>	Heating: Off < 2.5 W Heating: Eco or Auto < 10 W, max 15 W
<b>Response Time</b>	Typ. 230 ms; max. 800 ms (depending on immunity settings)
<b>Output</b>	2 solid-state relays (galvanic isolation, polarity free) 24 VAC / 30 VDC (max. switching voltage) – 100 mA (max. switching current) - in switching mode: NO / NC - in frequency mode: pulsed signal (f= 100 Hz ±10%) 1 electro-mechanic relay (galvanic isolation, polarity free) 42 VAC / VDC (max. switching voltage) – 500 mA (max. switching current)
<b>Input</b>	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
<b>Bluetooth Communication</b>	Operating bandwidth: 2402 - 2480 MHz Max. transmitted power: 12 dBm
<b>LED Signal</b>	2 tri-colored LEDs: Output status / Remote Control Response / Error Signals 1 Blue LED: Bluetooth status
<b>Dimensions</b>	7 3/4" (H) x 6" (W) x 4" (D) (approx.)
<b>Material / Color</b>	PC / ASA / Black
<b>Rotation Angles on Bracket</b>	45° to the right, 15° to the left (lockable)
<b>Tilt Angles on Bracket</b>	-10 – 5°
<b>Degree of Protection</b>	IP65
<b>Temperature Range</b>	-22 – 140 °F
<b>Norm Conformity</b>	IEC 61000-6-2, IEC 61000-6-3, IEC 60950-1, IEC 60825-1, ISO 13849-1 PL "d"/ CAT2, IEC 62061 SIL 2

## PRODUCT SERIES

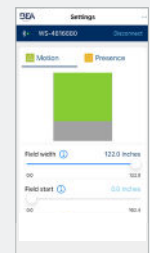
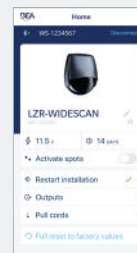
 <p><b>10LZRWIDESCAN</b> Motion, presence &amp; safety sensor</p>	 <p><b>10INDBRACKET</b> Industrial mounting bracket</p>	 <p><b>10MINIBRACKET</b> Short adjustable mounting bracket</p>
 <p><b>10.1311</b> LZR-WIDESCAN adapter kit</p>	 <p><b>10WBA</b> Universal mounting bracket arm</p>	 <p><b>10WBAMOUNT</b> Universal mounting bracket plate</p>
 <p><b>35.1554</b> 30' Cable</p>	 <p><b>35.1555</b> 50' Cable</p>	 <p><b>10PSMDR2024</b> 100 – 240 VAC, 24 VDC power supply</p>
 <p><b>41.8838</b> LZR-WIDESCAN replacement base</p>	 <p><b>35.0245</b> LZR-WIDESCAN replacement cover</p>	

## 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

## APP

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



**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



BEA AMERICAS / RIDC Park West / 100 Enterprise Drive / Pittsburgh, PA  
T 1-800-523-2462 / F 1-888-523-2462 / E info-us@BEAsensors.com

A Halma company