



# LZR®-WIDESCAN

MOTION, PRESENCE, & SAFETY SENSOR  
FOR INDUSTRIAL DOORS

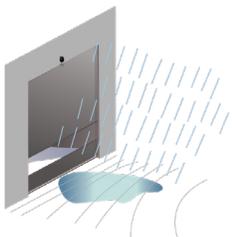
## DESCRIPTION

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.

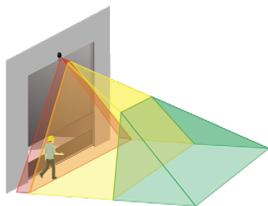
This IP65 rated sensor creates a volumetric detection area by generating seven angled LASER curtains. It has the ability to detect objects based on direction, speed, object size and height. The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.

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

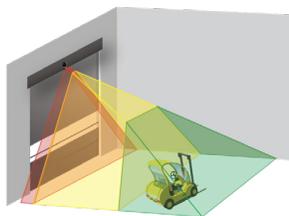
## APPLICATIONS



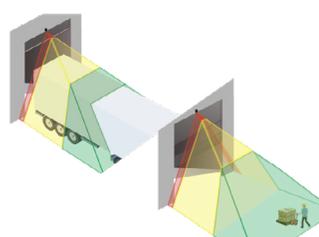
Dynamic Ground Conditions



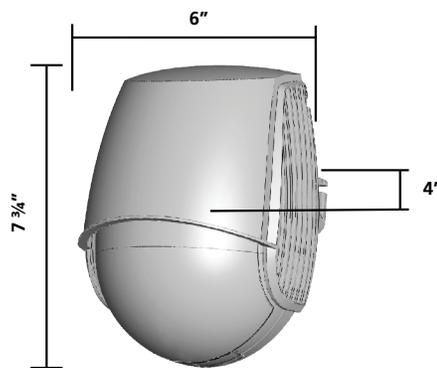
Pedestrian Safety



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 x mounting height (adjustable depending on user settings)
<b>Thickness of First Curtain</b>	1/4"
<b>Typ. Mounting Height</b>	6'6" – 30'
<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)
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 PI "d"/ CAT2, IEC 62061 SIL 2, IEC 61496-1 ESPE Type 2

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