



LZR®-WIDESCAN

MOTION, PRESENCE, & SAFETY SENSOR
FOR INDUSTRIAL DOORS



DESCRIPTION

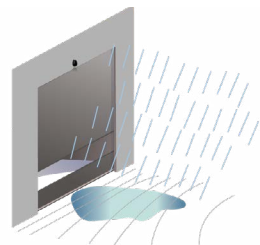
BEA's **LZR®-WIDESCAN** is a LASER-based, Time-of-Flight sensor used for motion, safety and presence detection in a variety of industrial door applications. This highly-configurable solution offers the benefits of activation and safety, while reducing installation time.

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.

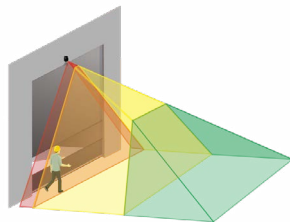
The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.

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

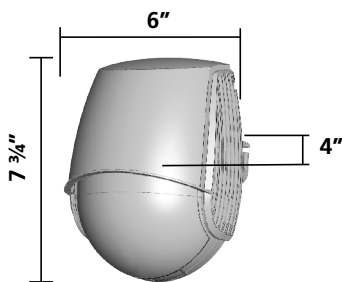


Dynamic Ground Conditions



Pedestrian Safety

DIMENSIONS



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TECHNICAL SPECIFICATIONS

TECHNOLOGY / PERFORMANCE

Technology	LASER scanner, time-of-flight measurement (7 laser curtains)
Detection mode	motion, presence, height, and speed
Max. detection field	width: 1.2 x mounting height depth: 1.2 x mounting height adjustable, depending on user settings
Thickness of first curtain	1/4"
Typ. mounting height	6'6" – 32'
Min. reflectivity factor	> 2 % (of floor and object) (measured at max. 19'6" in safety field)
Typ. min. object size	6" at 19'6" (in proportion to object distance)
Testbody	27 1/2" x 11 3/4" x 7 3/4"

ELECTRICAL

Emission characteristics

IR laser:	wavelength 905 nm; output power 0.10mW (CLASS 1)
Red visible laser:	wavelength 635 nm; output power 0.95mW (CLASS 2)

Supply voltage	12 – 24 VAC -10/+20% 12 – 30 VDC ±10% at sensor terminal
Power consumption	< 2.5 W (heating = OFF) < 10 W, max 15 W (heating = ECO or AUTO)
Response time	typ. 230 ms max. 800 ms (depending on immunity settings)
Output	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)
Input	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
Bluetooth communication	operating bandwidth: 2402 – 2480 MHz max. transmitted power: 12 dBm

PHYSICAL

Dimensions	7 3/4" (H) x 6" (W) x 4" (D) (approx.)
Material / Color	PC, ASA / Black
Protection degree	NEMA 4 / IP65
Temperature range	-22 – 140 °F
Rotation angles on bracket	45° to the right 15° to the left (both directions lockable)
Tilt angles on bracket	-10 – 5°
LED signals	2 tri-colored LED: output status / remote control response / error signals 1 blue LED: Bluetooth status

COMPLIANCE

Compliance	EN 300 328 V2.2.2, EN 301 489-1 V2.2.2, EN 301 489-17 V3.2.0, EN 60825-1:2014, EN 62311:2008; CSA/UL62368-1
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