



LZR®-WIDESCAN

MOTION, PRESENCE, & SAFETY SENSOR
FOR INDUSTRIAL DOORS



DESCRIPTION

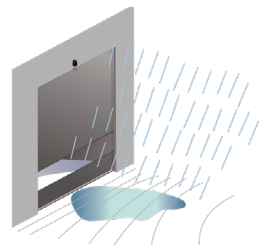
BEA's **LZR®-WIDESCAN** is a LASER-based, Time-of-Flight sensor used for motion, safety and presence detection in a variety of industrial door applications. This highly-configurable solution offers the benefits of activation and safety, while reducing installation time.

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.

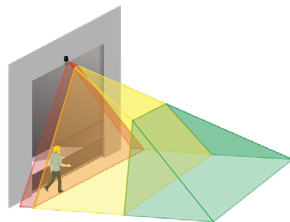
The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.

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

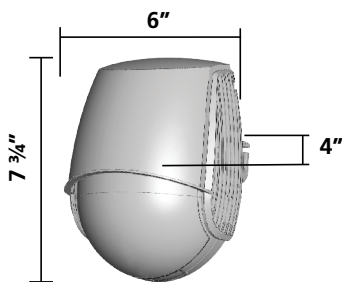


Dynamic Ground Conditions



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 × mounting height depth: 1.2 × mounting height adjustable, depending on user settings |
| Thickness of first curtain | ¼" |
| 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 ½" × 11 ¾" × 7 ¾" |

ELECTRICAL

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|---------------------------------|--|
| 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

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|-----------------------------------|--|
| Dimensions | 7 ¾" (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

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|-------------------|--|
| 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 |
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