

LZR®-WIDESCAN

MOTION, PRESENCE & SAFETY SENSOR FOR INDUSTRIAL DOORS



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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

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	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" x 11 ¾" x 7 ¾"

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

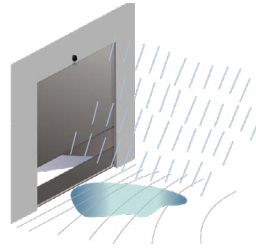
PHYSICAL

Dimensions	7 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

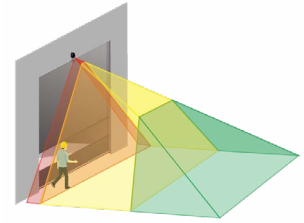
COMPLIANCE

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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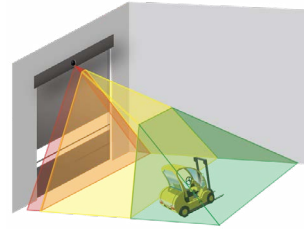
APPLICATIONS



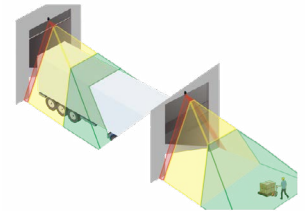
Dynamic Ground Conditions



Pedestrian Safety



Directionality



Full Open / Partial Open

PRODUCT SERIES



10LZRWIDESCAN
Motion, presence & safety sensor



10INDBRACKET
Industrial mounting bracket



10MINIBRACKET
Short adjustable mounting bracket



10.1311
LZR-WIDESCAN adapter kit



10WBA
Universal mounting bracket arm



10WBAMOUNT
Universal mounting bracket plate



35.1554
30' Cable



35.1555
50' Cable



10PSMDR2024
100 – 240 VAC, 24 VDC power supply



41.8838
LZR-WIDESCAN replacement base



35.0245
LZR-WIDESCAN replacement cover