LZR®-WIDESCAN

MOTION, PRESENCE & SAFETY SENSOR
FOR INDUSTRIAL DOORS

VIDEO

▲
Watch the product video

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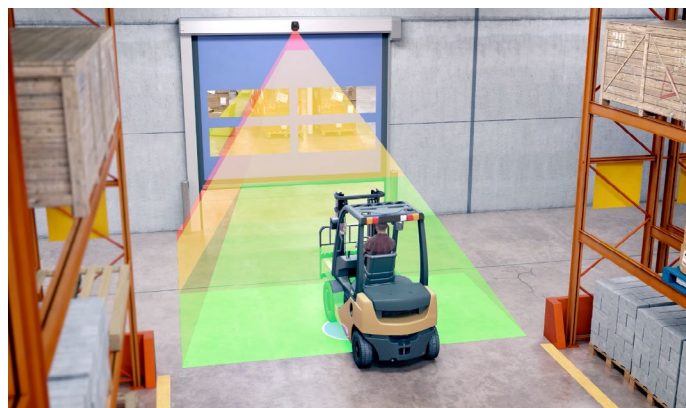
The **LZR®-WIDESCAN** detection field operates independent of ground conditions, allowing for superior functionality in harsh environments.

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
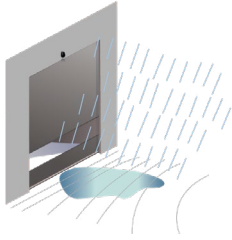

Alternative Solution
Ideal for replacing costly / labor-intensive induction loop and pull-cord solutions
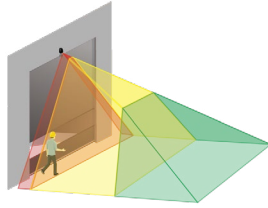
Visible Spots
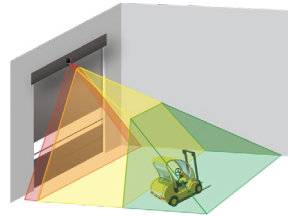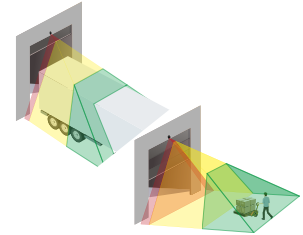Two visible LASER alignment spots ensure accurate pattern placement

APPLICATIONS

Dynamic Ground Conditions

Pedestrian Safety

Directionality

Full-Open / Partial-Open

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight measurement (7 LASER curtains)
Detection Mode	Motion, presence, height, and speed
Max. Detection Field	
Width / Depth	1.2 x mounting height (adjustable depending on user settings)
Thickness of First Curtain	¼"
Typ. Mounting Height	6'6" – 32'
Typ. Minimum Object Size	6" @ 19'6" (in proportion to object distance)
Test Body Dimensions	27 ½" × 11 ¾" × 7 ¾"
Min. Reflectivity Factor	> 2% (of floor and object) (measured at max. 19'6" in safety field)
Emission Characteristics	
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)
Supply Voltage	12 – 24 VAC -10/+20% 12 – 30 VDC ±10% @ sensor terminal
Power Consumption	
Heating: Off	< 2.5 W
Heating: Eco or Auto	< 10 W, max 15 W
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)
LED-Signal	2 tri-colored LEDS: Output status / Remote Control Response / Error Signals 1 Blue LED: Bluetooth status
Dimensions	7 ¾" (H) × 6" (W) × 4" (D) (approx.)
Material / Color	PC / ASA / Black
Rotation Angles on Bracket	45° to the right, 15° to the left (lockable)
Tilt Angles on Bracket	-10 – 5°
Degree of Protection	IP65
Temperature Range	-22 – 140 °F
Norm Conformity	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

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

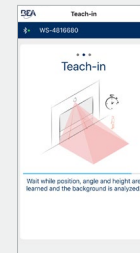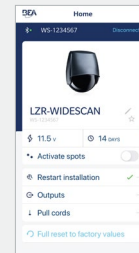**35.1554**
30' Cable

35.1555
50' Cable

10PSST242
242VDC 2A Plug-in Power supply

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.

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