



# LZR<sup>®</sup>-H100

LASER SCANNER FOR GATE & BARRIER APPLICATIONS



## VIDEO



[Watch the product video](#)

## TECHNOLOGY



## CERTIFICACIONES

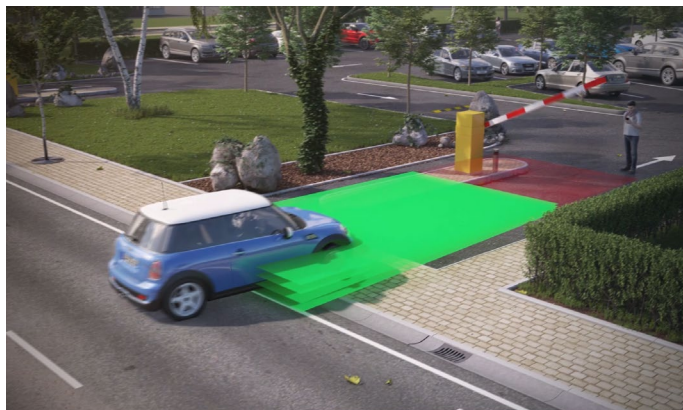
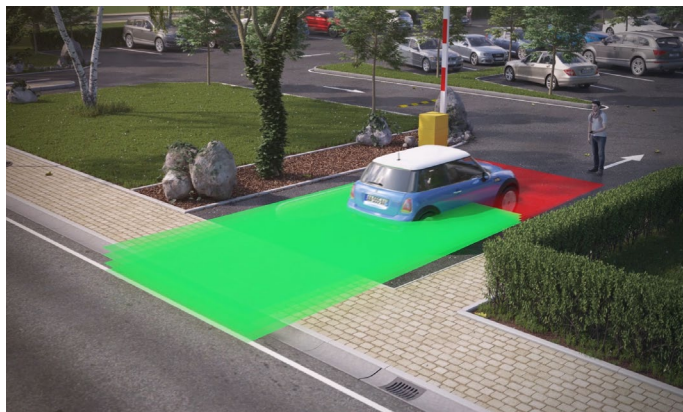


## DESCRIPTION

BEA's **LZR-H100** is a LASER-based Time-of-Flight sensor designed for gate and barrier applications.

This solution provides four LASER-based curtains, offering a three dimensional detection zone for accurate object detection. Its detection curtains are highly-configurable and can be set up for activation and presence detection in vehicle sensing applications.

The **LZR-H100** is an effective alternative to induction loops and is housed in an IP65 rated enclosure, further ensuring its performance in outdoor environments.



### Dual Relay Activation

Two relays allow for activation via motion or presence

### Effective Alternative To Loop Detectors

Ideal for applications where cutting ground for loops is prohibited, impossible or expensive

### Reliable And Constant Detection

Time-of-Flight presence-based opto-electronic sensor ensures accurate and immediate detection

### Trajectory Detection

Ability to detect vehicle trajectory during approach and departure

### Pedestrian Traffic Rejection

Ability to detect or ignore pedestrian traffic

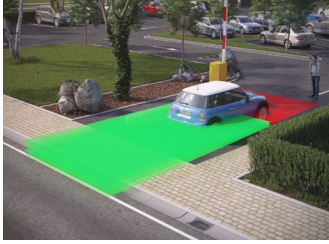
### Large Detection Field

Maximum detection field of 9 ¾ m × 9 ¾ m (32 × 32 ft)

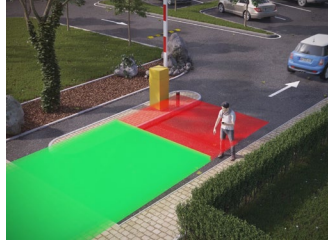
### Ease Of Installation

Teach-in setup via walk path or remote control configuration

## APPLICATIONS



Gate & Barrier Presence Detection



Pedestrian Presence Detection



Gate & Barrier Activation

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, Time-of-Flight measurement
<b>Detection Mode</b>	Motion & Presence
<b>Max. Detection Range</b>	32' x 32' (9 ¾ m)
<b>Remission Factor</b>	> 2%
<b>Angular Resolution</b>	0.3516°
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905 nm; max. output pulse power 0.10 mW (CLASS 1)
Red Visible LASER	Wavelength 635 nm; max. output CW power 3 mW (CLASS 2R)
<b>Supply Voltage</b>	10 – 35 VDC @ Sensor Terminal
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5 W
<b>Response Time</b>	
Motion Detection	typ. 200 ms (adjustable)
Presence Detection	typ. 20 ms (max. 80 ms)
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35 VDC / 24 VAC
Max. Switching Current	80 mA (resistive)
Switching Time	t <sub>ON</sub> = 5 ms; t <sub>OFF</sub> = 5 ms
Output Resistance	typ 30 Ω
Voltage Drop on Output	< 0.7 V @ 20 mA
<b>LED-Signal</b>	1 Blue LED: Power-on 1 Orange LED: Error status 2 Bi-colored LEDs: Detection / Output Status (Green = no detection, Red = detection)
<b>Dimensions</b>	3 5/8" (W) x 2 3/4" (H) x 5" (D) mounting bracket: + 1/2"
<b>Cable Length</b>	33'
<b>Material</b>	PC / ASA
<b>Color</b>	Black
<b>Rotation Angle on Bracket</b>	±5° (lockable)
<b>Tilt Angle on Bracket</b>	±3°
<b>Degree of Protection</b>	NEMA 4 / IP65
<b>Temperature Range</b>	-22 – 140 °F powered (-30 – 60 °C powered); 14 – 140 °F unpowered (-10 – 60 °C unpowered);
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Pollution on Front Screens</b>	Max. 30%; Homogenous
<b>Norm Conformity</b>	2006 / 95 / EC: LVD; 2004 / 108 / EC: EMC; IEC 60825-1:2007; IEC 61000-6-2:2005; 2002 / 95 / EC: RoHS; IEC 60529:2001; IEC 60950-1:2005; IEC 61000-6-3:2006

## PRODUCT SERIES

 <p><b>10LZR-H100</b> LZR-H100 sensor</p>	 <p><b>10BR3X</b> BR3-X logic module</p>	 <p><b>10LBA</b> LZR mounting bracket accessory</p>
 <p><b>10REMOTEREA</b> universal remote control</p>	 <p><b>10LIGHT-XX</b> LED signal modular light series</p>	 <p><b>10PSMDR2024</b> 100 – 240 VAC, 24 VDC power supply</p>
 <p><b>10GL1200R</b> 1200 lb / Front mount for sliding gate</p>	 <p><b>10GL1200SR</b> 1200 lb / Side mount for swinging door / gate</p>	 <p><b>10LZBRGATE1200</b> L &amp; Z Mounting bracket</p>

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WWW.BEASENSORS.COM



BEA AMERICAS / RIDC Park West / 100 Enterprise Drive / Pittsburgh, PA  
T 1-800-523-2462 / F 1-888-523-2462 / E info-us@BEAsensors.com

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