

LZR[®]-H100

LASER SCANNER FOR GATE AND BARRIER APPLICATIONS



LEARN MORE

TECHNOLOGY

CERTIFICATIONS







click or scan

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 32 ft × 32 ft (9 ³/₄ m × 9 ³/₄ m)

Ease Of Installation

Teach-in setup via walk path or remote control configuration

APPLICATIONS

Technology

Detection Mode

Remission Factor

Angular Resolution

Max. Detection Range



Gate & Barrier Presence Detection

TECHNICAL SPECIFICATIONS



Pedestrian Presence Detection

LASER scanner, Time-of-Flight measurement

Motion and presence

32' × 32' (9 ¾ m)

> 2%

0.3516°



Gate & Barrier Activation

PRODUCT SERIES



10LZRH100

ACCESSORIES

10REMOTE

control

BEA universal remote

LZR-H100 sensor





10LHB LZR housing bracket

10LBA LZR mounting bracket accessory

10PSMDR2024

24 VDC power supply

100 – 240 VAC



10PSST242 242VDC 2A Plug-in Power supply

10LZBRGATE1200

L & Z Mounting

bracket

/ ingular nesonation	0.3310
Emission Characteristics	
IR LASER	Wavelength 905 nm;
	max. output pulse power 0.10 mW (CLASS 1)
Red Visible LASER	Wavelength 635 nm;
Supply Voltage	max. output CW power 3 mW (CLASS 2R) 10 – 35 VDC @ sensor terminal
Peak Current at Power-On	1.8 A (max. 80 ms @ 35 V)
Power Consumption	< 5 W
Response Time	
Motion Detection	typ. 200 ms (adjustable)
Presence Detection	typ. 20 ms (max. 80 ms)
Output	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35 VDC / 24 VAC
Max. Switching Current Switching Time	80 mA (resistive) $t_{ON} = 5 ms; t_{OFF} = 5 ms$
Output Resistance	$t_{ON} = 5 \text{ ms}; t_{OFF} = 5 \text{ ms}$ typ 30 Ω
Voltage Drop on Output	< 0.7 V @ 20 mA
LED Signal	1 blue LED: Power-on
	1 orange LED: Error status
	2 bi-colored LEDS: Detection / Output Status
	(green = no detection, red = detection)
Dimensions	3 ⁵ / ₈ " (W) × 2 ³ / ₄ " (H) × 5" (D)
	sensor base: $+ \frac{1}{2}$ "
Cable Length	33'
Material	PC / ASA
Color	Black
Rotation Angle on Bracket	±5° (lockable)
Tilt Angle on Bracket	±3°
Degree of Protection	NEMA 4 / IP65
Temperature Range	
Powered	-22 – 140 °F (-30 – 60 °C)
Unpowered	14 – 140 °F (-10 – 60 °C)
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Pollution on Front Screens	Max. 30%; homogenous
Norm Conformity	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

35.1242 30' harness, 8-conductor

RELATED PRODUCTS



10GL1200R 1200 lb / Front mount for sliding gate



BR3-X logic module



10GL1200SR

1200 lb / Side mount for

swinging door / gate

DISCLAIMER Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. BEA has the right without liability to change descriptions and specifications at any time.

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