

WWW. IDDRENSORS EDM

LZR®-H100

LASER SCANNER FOR GATE & BARRIER APPLICATIONS



VIDEO

TECHNOLOGY

CERTIFICATIONS









Watch the product video

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 $\frac{3}{4}$ m \times 9 $\frac{3}{4}$ m (32 \times 32 ft)

Ease Of Installation

Teach-in setup via walk path or remote control configuration

APPLICATIONS







Pedestrian Presence Detection



Gate & Barrier Activation

LASER scanner, Time-of-Flight measurement
Motion & Presence
32' × 32' (9 ¾ m)
> 2%
0.3516°
Wavelength 905 nm; max. output pulse power 0.10 mW (CLASS 1)
Wavelength 635 nm; max. output CW power 3 mW (CLASS 2R)
10 – 35 VDC @ Sensor Terminal
1.8 A (Max. 80 ms @ 35 V)
< 5 W
typ. 200 ms (adjustable) typ. 20 ms (max. 80 ms)
2 electronic relays (galvanic isolated – polarity free 35 VDC / 24 VAC 80 mA (resistive) $t_{ON} = 5$ ms; $t_{OFF} = 5$ ms $typ 30 \Omega$ < 0.7 V @ 20 mA
Blue LED: Power–on Orange LED: Error status Bi-colored LEDS: Detection / Output Status (Green = no detection, Red = detection)
$3 \frac{5}{8}$ " (W) × $2 \frac{3}{4}$ " (H) × 5" (D) mounting bracket: + $\frac{1}{2}$ "
33'
PC / ASA
Black
±5° (lockable)
±3°
NEMA 4 / IP65

PRODUCT SERIES



10LZRH100 LZR-H100 sensor



10BR3X BR3-X logic module



101 RA LZR mounting bracket accessory



10REMOTE BEA universal remote control



10LIGHT-XX LED signal modular light series



10LZBRGATE1200 L & Z Mounting bracket



10GL1200R 1200 lb / Front mount for sliding gate



10GL1200SR 1200 lb / Side mount for swinging door/gate





10PSST242 242VDC 2A Plug-in Power supply

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Humidity

Vibrations

Norm Conformity

Pollution on Front Screens

14 - 140 °F unpowered (-10 - 60 °C unpowered);

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

0 – 95% non-condensing

Max. 30%; Homogenous

< 2 G