

LZR[®]-H110

LASER SCANNER FOR GATE & BARRIER APPLICATIONS



PRIMARY APPLICATIONS



DESCRIPTION

BEA's LZR-H110 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 opening, securing and presence detection in vehicle sensing applications.

The LZR-H110 is an alternative to induction loops in locations where cutting into the ground is inconvenient or restricted. The sensor is housed in a NEMA 4 rated enclosure, further ensuring its performance in outdoor environments.

FEATURES & BENEFITS

- Two relays allow for activation via motion or presence
- Suitable for applications where cutting ground for loops is prohibited or impossible
- True presence-based detection which ensures accurate and immediate activation
- Ability to detect vehicle trajectory during approach and depart
- Maximum detection field of 6.5 m x 5 m (21 ft x 16.5 ft)
- Teach-in setup via walk path or remote control configuration



BEA, Inc.
RIDC Park West
100 Enterprise Drive
Pittsburgh, PA 15275-1213

Customer Service: 800.523.2462
Technical Support: 800.407.4545
www.BEAinc.com

APPLICATIONS

GATE & BARRIER PRESENCE DETECTION



PEDESTRIAN PRESENCE DETECTION



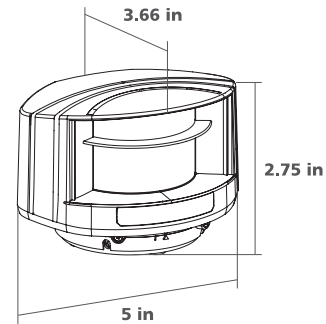
GATE & BARRIER ACTIVATION



TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time-of-flight measurement
Detection Mode	Motion and presence
Max. Detection Range	5.0 m x 6.5 m (16.5 ft x 21 ft)
Remission Factor	> 2%
Angular resolution	0.3516°
Emission Characteristics	
IR LASER	Wavelength 905nm; max. output pulse power 75W (CLASS 1)
Red Visible LASER	Wavelength 650nm; max. output CW power 3mW (CLASS 3R)
Supply Voltage	10 – 35 V DC @ Sensor Terminal
Peak Current at Power-On	1.8 A (Max. 80 ms @ 35 V)
Power Consumption	< 5W
Response Time	Min 20ms; Max 80ms
Output	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35V DC / 24V AC
Max. Switching Current	80 mA (resistive)
LED-Signal	1 Blue LED: Status « Power-on » 1 Orange LED: Status « Error » 2 Red/Green LEDs: Status « Detection/Output »
Dimensions	
Housing 10LBA	5 in (D) x 3.66 (W) x 2.75 in (H) Mounting bracket adds 0.55 in
Cable Length	10 m (30 ft)
Material	PC/ASA
Color	Black
Rotation Angle on Bracket	±5° (Lockable)
Tilt Angle on Bracket	±3°
Degree of Protection	NEMA 4 / IP65
Temperature Range	-30°C to +60°C if powered; -10°C to +60°C unpowered
Humidity	0–95% non-condensing
Vibrations	< 2G
Pollution on Front Screens	Max. 30%; Homogenous
Test Body Dimensions	< 11.81 in x 7.87 in x 27.56 in @ 276 in (EN 12445 test body A)
Norm Conformance	2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; EN 60529:2001; IEC 60825-1:2007; EN 60950-1:2005; EN 61000-6-2:2005; EN 61000-6-3:2006

DIMENSIONAL DRAWINGS



RELATED PRODUCTS



10LZR-H110
LZR-H110
SENSOR



10BR3
BR3
LOGIC MODULE



10PS12-24
110-1224 VAC
POWER SUPPLY



10LBA
LZR MOUNTING
BRACKET ACCESSORY



10MINIBRACKET
6 IN - 12 IN
EXTENSION BRACKET



10REMOTE
BEA UNIVERSAL
REMOTE CONTROL
*REMOTE IS REQUIRED



10LIGHT-XX
LED SIGNAL
MODULAR LIGHT
SERIES

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