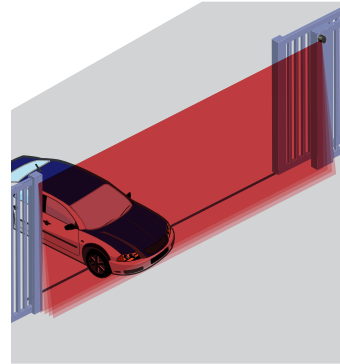


# LZR<sup>®</sup>-i30

## LASER SCANNER FOR INDUSTRIAL DOOR AND GATE SAFETY



### PRIMARY APPLICATIONS



Maximum Detection  
Zone of 360 in x 360 in  
(30 ft x 30 ft)

### DESCRIPTION

BEA's LZR-i30 is a laser-based time-of-flight sensor. This high precision technology ensures accurate object detection. The product configuration provides four laser-based curtains offering a three dimensional safety zone.

The sensor is designed for the detection of people and vehicles, in both indoor and outdoor environments. The detection accuracy makes this sensor ideal for high performance industrial doors, vehicle flow safety, perimeter protection and variety of applications.

The LZR-i30 is housed in a NEMA 4 rated enclosure and can be installed in outdoor, industrial and other harsh environments. Three visible LED spots provide accurate reference points when adjusting the tilt angle. Parameter adjustments can be made with a BEA remote control.

### FEATURES & BENEFITS

- Four curtains of detection each capable of 360 in x 360 in (30 ft x 30 ft)
- Detects objects as small as 2 inches at 30 feet away, depending on application
- Degree of protection: NEMA 4 / IP65
- External entrapment protection device capable of monitoring with interfaces / door / gate systems
- Has the ability to ignore dynamic ground conditions and extreme weather
- Three visible LEDs for pattern alignment

## APPLICATIONS

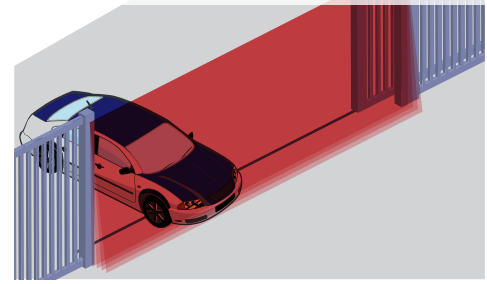
### AUTOMATIC INDUSTRIAL DOORS



### VIRTUAL PUSH PLATE



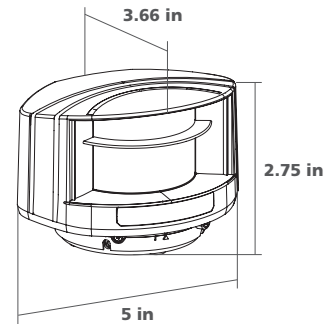
### GATES AND BARRIERS



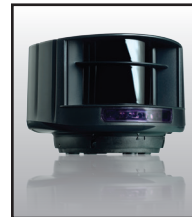
## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection Mode</b>	Presence (EN 12453 Typ. E)
<b>Max. Detection Range</b>	360 in x 360 in (30ft x 30ft) per curtain
<b>Detection Plane</b>	4 curtains per sensor, curtain spread dependent on mounting height
<b>Remission Factor</b>	> 2%
<b>Emission Characteristics</b>	
IR LASER	Wavelength 905nm; maximum output pulse power 75W
Red Visible LASER	Wavelength 650nm; maximum output CW power 3mW
<b>Supply Voltage</b>	10 – 35 V DC @ Sensor Terminal
<b>Peak Current at Power-On</b>	1.8 A (Max. 80 ms @ 35 V)
<b>Power Consumption</b>	< 5W
<b>Response Time</b>	Min 20ms; Max 80ms
<b>Output</b>	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35V DC / 24V AC
Max. Switching Current	80 mA (resistive)
<b>LED-Signal</b>	1 Blue LED: Status « Power-on » 1 Orange LED: Status « Error » 2 Red/Green LEDs: Status « Detection/Output »
<b>Dimensions</b>	
Housing	5 in (W) x 3.66 (D) x 2.75 in (H)
10LBA	Mounting bracket adds 0.5 in
<b>Cable Length</b>	360 in (30 ft)
<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°F to +140°F if powered
<b>Humidity</b>	0–95% non-condensing
<b>Vibrations</b>	< 2G
<b>Pollution on Front Screens</b>	Max. 30%; Homogenous
<b>Test Body Dimensions</b>	< 11.81 in x 7.87 in x 27.56 in @ 276 in (EN 12445 test body A)
<b>Norm Conformance</b>	2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; 2006/42/EC: MD; EN 12453:2000 chapter 5.1.1.6, chapter 5.5.1 Safety device E; EN 12978:2009; EN ISO 13849-1:2008 CAT2, Pl “d”; EN 60529:2001; IEC 60825-1:2007; EN 60950-1:2005; EN 61000-6-2:2005; EN 61000-6-3:2006; IEC 61496-1:2009; EN 61496-3:2008 ESPE Type 2; EN 62061:2005 SIL 2

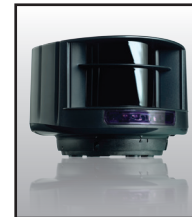
## DIMENSIONAL DRAWINGS



## RELATED PRODUCTS



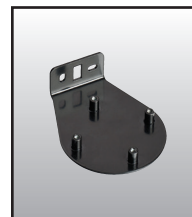
**10LZR130**  
LZR-130  
SENSOR



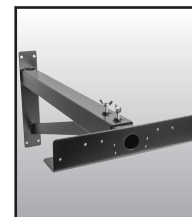
**10LZRS600**  
LZR-S600  
SENSOR



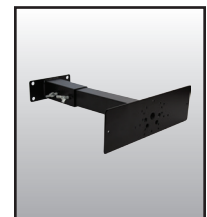
**10PS12-24**  
110-1224 VAC  
POWER SUPPLY



**10LBA**  
LZR MOUNTING  
BRACKET ACCESSORY



**10INDBRACKET**  
20 IN - 36 IN  
EXTENSION BRACKET



**10MINIBRACKET**  
6 IN - 12 IN  
EXTENSION BRACKET



**10REMOTE**  
BEA UNIVERSAL  
REMOTE CONTROL  
\*REMOTE IS REQUIRED

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**LZR®-I30**

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