LZR®-I30

LASER SCANNER FOR INDUSTRIAL AUTOMATION

VIDEO

Watch the product video

TECHNOLOGY

CERTIFICATIONS

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.
Its detection accuracy makes this sensor ideal for high performance industrial doors, vehicle flow safety, perimeter protection and variety of applications.

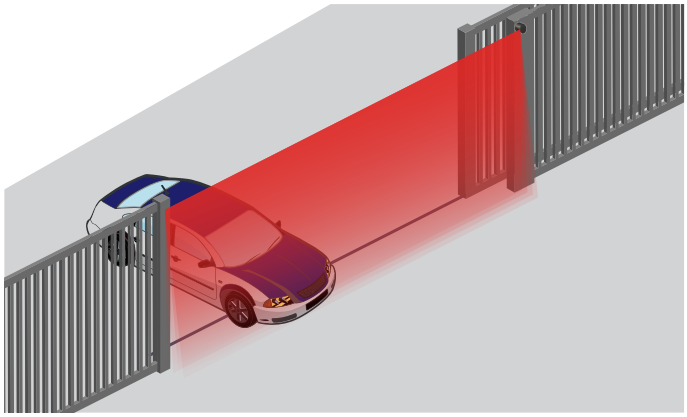
The **LZR®-I30** is housed in an IP65 rated enclosure and can be installed in outdoor, industrial and other harsh environments. Three visible LED spots provide accurate reference points when adjusting the tilt angle. Parameter adjustments can be made with a BEA universal remote control.

3-Dimensional Safety Zone

Four curtains of detection each capable of 360 in × 360 in (30 ft × 30 ft)

Highly Accurate Detections

Detects objects as small as 2 inches at 30 feet away, depending on application



Energy Savings

Has the ability to ignore dynamic ground conditions and extreme weather

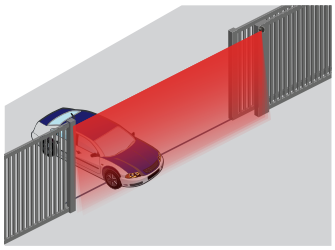
Easily Adjustable

Three visible LEDs for pattern alignment

APPLICATIONS


Automatic Industrial Doors


Virtual Push Plate


Gates And Barriers

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, Time-of-Flight measurement
Detection Mode	Motion / Presence (EN 12453 Typ. E)
Max. Detection Range	30′ × 30′
Remission Factor	> 2%
Emission Characteristics	
IR LASER	Wavelength 905 nm; maximum output pulse power 75 W (CLASS 1)
Red Visible LASER	Wavelength 650 nm; maximum output CW power 3 mW (CLASS 3R)
Supply Voltage	10 – 35 VDC @ Sensor Terminal (to be operated from SELV compatible power supplies only)
Peak Current at Power-On	1.8 A (Max. 80 ms @ 35 V)
Power Consumption	< 5 W
Response Time	Typ. 20 ms; max. 80 ms (+ output activation delay)
Output	2 electronic relays (galvanic isolated – polarity free)
Max. Switching Voltage	35 VDC / 24 VAC
Max. Switching Current	80 mA (resistive)
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	
Housing	5″ (W) × 2 ¾″(H) × 3 ⅔ (D)
10LBA	Adds 1 1/20″
Cable Length	30′
Material	PC / ASA
Color	Black
Rotation Angle on Bracket	±5° (Lockable)
Tilt Angle on Bracket	±3°
Degree of Protection	IP65
Temperature Range	-22 – 140 °F if powered 14 – 140 °F if unpowered
Humidity	0 – 95% non-condensing
Vibrations	< 2 G
Pollution on Front Screens	Max. 30% ; Homogenous
Test Body Dimensions	700 mm × 200 mm × 200 mm (test body A according to EN 12445)
Norm Conformity	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

PRODUCT SERIES


10LZRI30
LASER scanner for industrial automation


10LZRS600
LASER scanner for automation and security


10PS12-24
UL / ULC Listed power supply


10LBA
LZR mounting bracket accessory


10INDBRACKET
20 – 26″ extension bracket


10MINIBRACKET
6 – 12″ extension bracket


10REMOTE
BEA universal remote control


10PSMDR2024
100 – 240 VAC,
24 VDC power supply

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