



# LZR®-I30

## LASER SCANNER FOR INDUSTRIAL AUTOMATION



### 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 a variety of applications.

The **LZR®-I30** is housed in an 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 universal remote control.

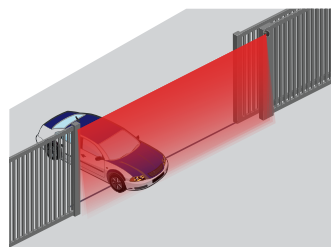
### APPLICATIONS



Automatic, Industrial Doors



Virtual Push Plate



Gates and Barriers

### TECHNICAL SPECIFICATIONS

|                                   |   |
|-----------------------------------|---|
| <b>Technology</b>                 | LASER scanner, Time-of-Flight measurement   |
| <b>Detection Mode</b>             | Motion / Presence   |
| <b>Max. Detection Range</b>       | 30' x 30'   |
| <b>Remission Factor</b>           | > 2%  |
| <b>Emission Characteristics</b>   |   |
| IR LASER                          | Wavelength 905 nm;<br>output power 0.10 mW (CLASS 1)  |
| Red Visible LASER                 | Wavelength 635 nm;<br>output power 0.95 mW (CLASS 2)  |
| <b>Supply Voltage</b>             | 10 – 35 VDC @ Sensor Terminal (to be operated from SELV compatible power supplies only)   |
| <b>Peak Current at Power-On</b>   | 1.8 A (Max. 80 ms @ 35 V)   |
| <b>Power Consumption</b>          | < 5 W   |
| <b>Response Time</b>              | Typ. 20 ms; max. 80 ms (+ output activation delay)  |
| <b>Output</b>                     | 2 electronic relays (galvanic isolated – polarity free)   |
| Max. Switching Voltage            | 35 VDC / 24 VAC   |
| Max. Switching Current            | 80 mA (resistive)   |
| <b>LED-Signal</b>                 | 1 blue LED: Power-on<br>1 orange LED: Error status<br>2 bi-colored LEDs: Detection / Output Status (green: no detection; red: detection)  |
| <b>Dimensions</b>                 |   |
| Housing 10LBA                     | 5" (W) x 2 ¾" (H) x 3 ½" (D)<br>Adds 1 ½"   |
| <b>Cable Length</b>               | 30'   |
| <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  |
| <b>Temperature Range</b>          | powered: -22 – 140 °F<br>unpowered: 14 – 140 °F   |
| <b>Humidity</b>                   | 0 – 95% non-condensing  |
| <b>Vibrations</b>                 | < 2 G   |
| <b>Pollution on Front Screens</b> | Max. 30% ; homogenous   |
| <b>Test Body Dimensions</b>       | 700 mm x 200 mm x 200 mm<br>(test body A according to EN 12445)   |
| <b>Norm Conformity</b>            | 2006 / 95 / EC: LVD; 2002 / 95 / EC: RoHS; 2004 / 108 / EC: EMC; 2006 / 42 / EC: MD; ISO 13849-1:2008 CAT2, PI "d"; IEC 60529:2001; IEC 60825-1:2007; IEC 60950-1:2005; IEC 61000-6-2:2005; IEC 61000-6-3:2006; IEC 61496-1:2009; IEC 61496-3: 2008 ESPE Type 2; IEC 62061:2005 SIL 2 |

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