



LZR®-S600

LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

DESCRIPTION

BEA's **LZR®-S600** is a LASER-based Time-of-Flight sensor. This high precision technology ensures accurate detection. The product configuration provides four LASER-based curtains offering a three dimensional presence detection zone.

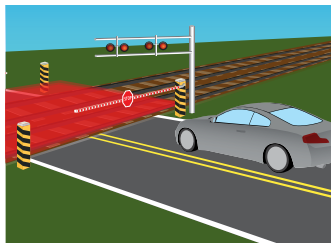
BEA's **LZR®-S600** represents the largest detection field offered in our LASER Time-of-Flight product portfolio. This sensor is ideal for perimeter security protection, industrial automation and large industrial door / gate applications that require a wide field of detection.

The **LZR®-S600** 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.

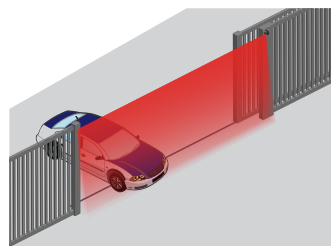
APPLICATIONS



Security



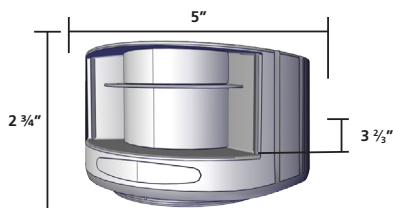
Warning Indication



Large Industrial Gate



Mass Transit



TECHNICAL SPECIFICATIONS

| | |
|--|---|
| Technology: | LASER scanner, Time-of-Flight measurement |
| Detection mode: | motion and presence |
| Detection range: | Default: 33' x 33' @ 2% remission factor (max. 82 ft x 82 ft) |
| Angular resolution: | 0.3516° |
| Min. detected object size (typ.): | 0.8 in @ 10 ft 1.4 in @ 16 ft 2.8 in @ 33 ft 6.9 in @ 82 ft |
| Emission characteristics | |
| IR laser: | wavelength 905 nm; output power 0.10mW (CLASS 1) |
| Red visible laser: | wavelength 635 nm; output power 0.95mW (CLASS 2) |
| Supply voltage: | 10 – 35 VDC @ sensor side |
| Power consumption: | < 5 W |
| Peak current @ power-on: | 1.8 A (max. 80 ms @ 35 V) |
| Cable length: | 33' |
| 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) |
| Switching time: | t _{ON} = 5 ms; t _{OFF} = 5 ms |
| Output resistance: | typ 30 Ω |
| Voltage drop on output: | < 0.7 V @ 20 mA |
| Leakage current: | < 10 μA |
| Input: | 2 optocouplers (galvanic-isolated – polarity-free) |
| Max. contact voltage: | 30 VDC (over-voltage protected) |
| Voltage threshold: | Log. Active High: > 8 VDC Log. Active Low: < 3 VDC |
| Response time monitoring input: | < 5 ms |
| LED signal: | 1 blue LED: power-on status 1 orange LED: error status 2 bi-colored LEDs: detection/output status (green = no detection, red = detection) |
| Dimensions: | 3 5/8" x 2 3/4" x 5" (W x H x D) mounting bracket: + 1/2" |
| Material: | PC/ASA |
| Color: | Black |
| Mounting angles on bracket: | -45°, 0°, 45° |
| Rotation angles on bracket: | -5 – 5° (lockable) |
| Tilt angles on bracket: | -3 – 3° |
| Protection degree: | NEMA 4 / IP65 |
| Temperature range: | powered: -22 – 140 °F (-30 – 60 °C) unpowered: 14 – 140 °F (-10 – 60 °C) |
| Humidity: | 0 – 95% non-condensing |
| Vibrations: | < 2G |
| Pollution on front screen: | max. 30%, homogenous |
| Norm conformity: | 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; IEC 60529:2001; IEC 60825-1:2007; IEC 60950-1:2005; IEC 61000-6-2:2005; IEC 61000-6-3:2006 |

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