LZR®-S600

LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

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TECHNOLOGY

CERTIFICATIONS

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.

BEA's Largest Detection Field

Maximum detection range of 82 × 82 ft

Safe And Reliable

External entrapment protection device capable of monitoring with interfaces building management systems

Reduce False Detections

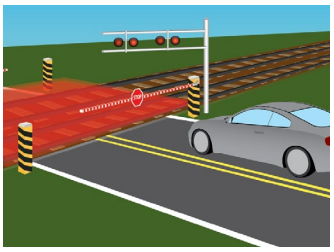
High immunity to environmental interferences

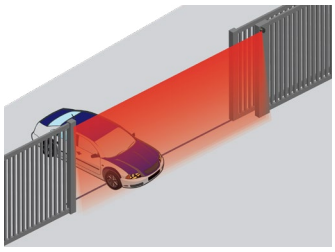
Eliminates False Detections

Has the ability to ignore dynamic ground conditions and extreme weather

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"× 2 3/4"× 5" (W × H × 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

PRODUCT SERIES


10LZRS600
LASER scanner for building automation and security

ACCESSORIES


10LBA
LZR mounting bracket accessory


10INDBRACKET
20 – 26" extension bracket


10MINIBRACKET
6 – 12" extension bracket


10PSST242
242VDC 2A Plug-in Power supply


10REMOTE
BEA universal remote control


35.1242
30' harness, 8-conductor

RELATED PRODUCTS


10LZRI30
LZR-I30 sensor