

# LZR<sup>®</sup> - S25

## LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

Commercial sheet



### MAKE YOUR BUILDINGS SAFE

#### DESCRIPTION

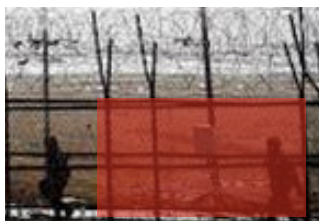
The **LZR-S25** is a long distance laser scanner used to prevent any intrusion into a building or a well defined perimeter.

#### PERFORMANCE

- Maximum detection range :25m x 25m.
- Compact, light and competitive sensor.
- Retrofit opportunity due to easy and cost-effective installation.
- Four planes covering a given area in height, width and depth.
- High immunity to environmental interferences due to time of flight with dedicated software.
- Technology: time of flight measurement.

LZR-S25 ■





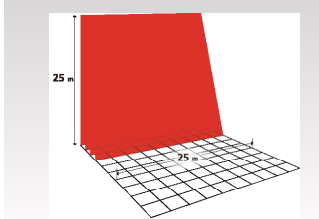
Border protection



Cross way safety monitoring



Border protection



25 m x 25 m @ 2 % remission factor

APPLICATIONS

DETECTION AREA

## APPLICATIONS

- Perimeter protection / intrusion detection.
- Protection of high level security buildings.

## EASE OF INSTALLATION

- For easy installation, 3 visible red LASER beams can be activated to align the detection planes and adjust the tilt and rotation angles.
- Teach-in function: self-learning of both environment and background through an automatic adjustment of the detection planes.

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection mode</b>	Movement and presence
<b>Max. detection range</b> @ 2% remission factor	25 m x 25 m (For further options, please contact Sensorio)
<b>Remission factor</b>	> 2 %
<b>Angular resolution</b>	0,3516°
<b>Size of target</b>	2,1 cm @ 3 m / 3,5 cm @ 5 m (in proportion to object distance)
<b>Emission characteristics</b> IR LASER	Wavelength 905 nm; max. output pulse power 75 W ; Class 1
<b>Supply voltage</b>	10-35V DC @ sensor terminal
<b>Power consumption</b>	< 5 W
<b>Response time</b>	Typ. 20 ms; max. 80 ms
<b>Output</b> Max. switching voltage Max. switching current	2 electronic relays (galvanic isolated - polarity free) 35V DC / 24V AC 80 mA (resistive)
<b>Input</b> Max. contact voltage Voltage threshold	2 optocouplers (galvanic isolated - polarity free) 30V DC (over-voltage protected) Log. H: > 8V DC Log. L: < 3V DC
<b>LED signals</b>	1 blue LED power-on status 1 orange LED error status 2 bicoloured LED detection/output status (green LED: no detection; red LED: detection)
<b>Dimensions</b>	125 mm (D) x 93 mm (W) x 70 mm (H) (mounting bracket + 14 mm)
<b>Material</b>	PC/ASA (colour: black or white)
<b>Rotation angles on bracket</b>	-5° to +5° (lockable)
<b>Tilt angles on bracket</b>	-3° to +3°
<b>Protection degree</b>	IP65 (avoid direct exposure to high pressure cleaning)
<b>Temperature range</b>	-30°C to +60°C if powered -10°C to +60°C unpowered
<b>Humidity</b>	0-95 % non-condensing
<b>Vibrations</b>	< 2 G
<b>Norm conformity</b>	2006/95/EC: LVD 2002/95/EC: RoHS 2004/108/EC: EMC EN 60529: 2001; IEC 60825-1:2007 Laser Class 1 & 3R EN 61000-6-2:2005 EMC - Industrial level EN 61000-6-3:2006 EMC - Commercial level

Specifications are subject to change without prior notice.

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www.sensorio.be

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