

LZR[®] - S600

LASER SCANNER FOR BUILDING AUTOMATION AND SECURITY

Commercial sheet



MOVE TO THE 4TH DIMENSION ON YOUR SECURITY SYSTEM

DESCRIPTION

The **LZR[®]-S600** is a LASER-based security device designed to protect goods and buildings against theft, vandalism and intrusion. This high-precision sensor ensures high levels of detection and security for your valuables.

It is a compact and competitive solution with easy plug & play and teach-in installation.



PERFORMANCE

- Typical detection range : 25 m × 25 m*.
- Capacity to detect objects in mm-range** and with a remission factor down to 2 %.
- Discretion guaranteed : the LED display can be switched off with the remote control.
- Compared to standard camera systems, no external illumination of target necessary.
- Four planes covering a given area in height, width and depth.
- High immunity to environmental interferences due to time of flight with dedicated software.
- Opportunity for retrofit due to easy installation and low commissioning costs.
- Different functions* can be achieved thanks to 2 independent relay outputs : prealert/alert, night and day, anti-vandalism.



* For further options, please contact Sensorio

** Depends on the application



Protection of works of art



Day and night feature : « day »



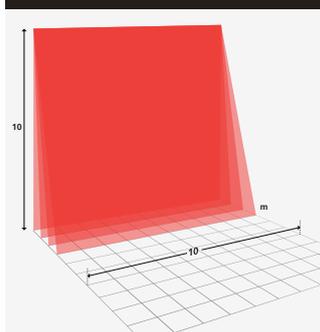
Day and night feature : « night »



Intrusion protection



Protection against product damage and theft



10 m x 10 m @ 2 % remission factor

APPLICATIONS

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- Protection against theft and vandalism.
- Perimeter protection / intrusion detection.
- Protection of works of art and masterpieces in museums.
- Protection of high level security buildings.

EASE OF INSTALLATION

- 3 visible red LASER beams can be activated to align the detection surface 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.
- Remote control to easily set the adjustable parameters.
- Teach-in function launched with the remote control or operating system.

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time-of-flight measurement
Detection mode	Movement and presence
Max. detection range	10 m x 10 m (@ 2% remission factor) Max. 25 m x 25 m
Angular resolution	0,3516°
Typ. min. target size	2.1 cm @ 3 m / 3.5 cm @ 5 m / 7 cm @ 10 m / 17.5 cm @ 25 m (in proportion to object distance)
Emission characteristics	
IR LASER	Wavelength 905 nm; max. output pulse power 75 W ; Class 1
Supply voltage	10-35V DC @ sensor terminal
Power consumption	< 5 W
Response time	Typ. 20 ms; max. 80 ms
Output	2 electronic relays (galvanic isolated - polarity free)
Max. switching voltage	35V DC / 24V AC
Max. switching current	80 mA (resistive)
Input	2 optocouplers (galvanic isolated - polarity free)
Max. contact voltage	30V DC (over-voltage protected)
Voltage threshold	Log. H: > 8V DC Log. L: < 3V DC
LED signals	1 blue LED : power-on status 1 orange LED : error status 2 bicoloured LED : detection/output status (green LED: no detection; red LED: detection) The LEDs can be switched off by remote control.
Dimensions	125 mm (D) x 93 mm (W) x 70 mm (H) (mounting bracket + 14 mm)
Material	PC/ASA (colour: black or white)
Rotation angles on bracket	-5° to +5° (lockable)
Tilt angles on bracket	-3° to +3°
Protection degree	IP65 (avoid direct exposure to high pressure cleaning)
Temperature range	-30°C to +60°C if powered -10°C to +60°C unpowered
Humidity	0-95 % non-condensing
Vibrations	< 2 G
Norm conformity	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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