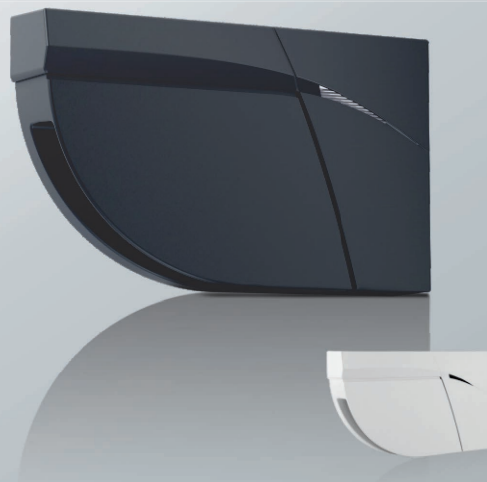


HD-LSS4

COMPACT LASER SCANNER FOR EXHIBIT SECURITY AND BUILDING AUTOMATION

Commercial sheet



THE COMPACT AND DISCRETE SOLUTION

DESCRIPTION

The **HD-LSS4** is a laser technology sensor. It uses the time-of-flight measurement and background analysis to protect exhibits and artwork. **HD-LSS4** modules generates 400 measuring points capable of reaching a maximum distance of 4 m so as to offer complete protection to the user.



EN



Protection of artworks and exhibits



Intrusion protection

PERFORMANCE

- Typical detection range : max. 4 m.
- Capacity to detect objects in mm-range and with a remission factor down to 2 %.
- Ultra-compact size for easy and discrete installation.
- Compared to standard camera systems, no external illumination of target necessary.
- Single plane covering a given area in height and width.
- 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 : push button, two zone operation, anti-vandalism.
- Easy connection with **Human Detector** alarm systems

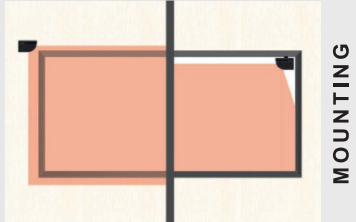


TECHNICAL SPECIFICATIONS



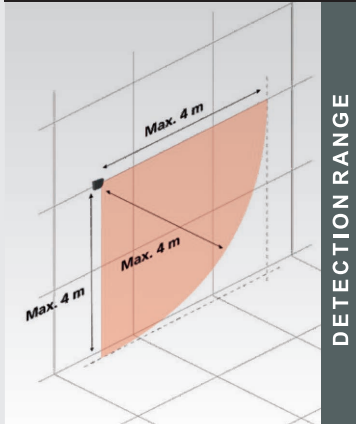
APPLICATION

Protection of artworks and exhibits



MOUNTING

Niche or surface mounting

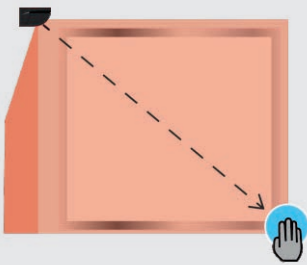


DETECTION RANGE

Max. detection range 4 m (diagonal)

Technology	LASER scanner, time-of-flight measurement, background analysis
Detection mode	Presence
Max. detection range	4 m (diagonal) with reflectivity of 2% (i.e. : at W = 3.7 m -> max. H = 1.5 m)
Number of curtains	1
Measurement points	400
Angular resolution	0.27°
Angular coverage	108 °
Min. detected object size	2 cm (depending on the settings)
Optical characteristics	
IR LASER	Wavelength 905 nm; max. output pulse power 25 W; Class 1
Supply voltage	12-24V DC ± 15%
Power consumption	≤ 2 W
Typ. response time	400 ms
Peak current at power-on	0.8 A (max. 20 ms @ 24 VDC)
Cable length	5 m
Output	2 solid state relays (galvanic isolation - polarity free)
Max. switching voltage	42V AC/DC
Max. switching current	100 mA
Input	1 optocoupler (galvanic isolated - polarity free)
Max. contact voltage	30 V DC (over-voltage protected)
Voltage threshold	Log. H: >8 V DC; Log. L: <3 V DC
LED-signals	1 Tri-coloured LED: detection/output status
Dimensions	142 mm (L) × 85 mm (H) × 33 mm (D) (mounting base + 14 mm)
Material - Colour	PC/ASA - Black - White
Tilt angles	-2° to +6° (with mounting base) +2° to +10° (without mounting base)
Protection degree	IP54 [EN 60529]
Temperature range	-30°C to +60°C if powered; -10°C to +60°C without power
Humidity	0-95 % non-condensing
Vibrations	< 2 G
Norm conformity	EN 61000-6-2 EMC - Industrial EN 61000-6-3 EMC - Industrial EN 60950-1; EN 60825-1 Laser Class 1; EN 50581

Specifications are subject to changes without prior notice.
All values measured in specific conditions.



QUICK AND INTUITIVE CONFIGURATION

The size of the security zone is defined by an easy manual movement. The height and width of the zone are automatically calculated. All adjustments could also be done by IR remote control. All settings are stored after power fail. No re-adjustment necessary after long term operations. Direct connection with **Human Detector** alarm input.

DISCLAIMER

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Available in black and white colored housing