

LZR®-VISIOSCAN AC

2D object detection laser scanner for AGV/AMR anti-collision



APPLICATIONS













The LZR®-VISIOSCAN AC is a compact and rugged 2D laser scanner engineered for reliable object detection, area monitoring, and anti-collision of AGV/AMRs and automatic forklifts. Built to perform in challenging industrial settings, it uses the LASER time-of-flight technology to identify the presence of objects or people within the user defined field and triggers instant responses through its configurable I/O outputs.



Outstanding Detection Capability

LZR®-VISIOSCAN AC delivers reliable low-reflectivity detection (2% @ 7m, 10% @ 15m), while its intelligent object filter minimizes false triggers by ignoring irrelevant targets, ensuring consistent performance in complex industrial environments.



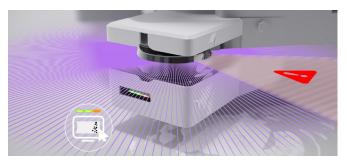
16 x 3 Flexible Fields

LZR®-VISIOSCAN AC features 16 configurable field triplets with outputs that can be assigned to configurable I/O interfaces, enabling flexible detection setups.



Rugged Industrial Design

The LZR®-VISIOSCAN AC features a robust design with an operating temperature range of -30 °C to +60 °C, shock resistance up to 15g, and an IP67 protection rating, ensuring stable operation under extreme temperature variations and strong vibration.



Intelligent Window Monitoring System

The Intelligent Window Monitoring System detects optical window contamination in real-time, enabling predictive maintenance through customizable alerts to prevent performance issues and unplanned downtime.

APPLICATIONS



AGV/AMR anti-collision



Automatic forklift anti-collision



Area monitoring

DIMENSIONS



ACCESSORIES

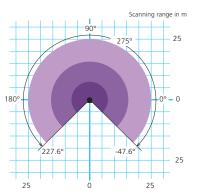


POWER CABLE





TECHNICAL SPECIFICATIONS



- Scanning range for objects up to 1.8% reflectivity, typ. 7 m.
- Scanning range for objects up to 10% reflectivity, typ. 15 m.
- Max. scanning range 25 m.

Technology	Laser scanner, time-of-flight measurement;
	Output power < 0.1 mW; Class 1 (IEC/EN 60825-1)
Scanning range	0.08 – 25 m; 7 m @ 1.8% reflectivity; 15 m @ 10% reflectivity;
Curtain	1
Scanning angle	275°
Angular resolution	0.2° @ 80 Hz
Measurement accuracy	
Systematic error	± 10 mm*
Statistical error (1σ)	\leq 6 mm (0.08 – 7 m); \leq 10 mm (7 – 15 m)*; \leq 6 mm (0.08 – 25 m) for reflectors
Detection fields	Number of field sets: 16
	Number of fields per field set: 3
Supply voltage**	12 – 24 V DC, - 10% / + 30%
Interface	PNP inputs/outputs; Ethernet, TCP/IP; USB: 2.0, Type-C
Digital inputs/outputs	Inputs: 4 x PNP; Outputs: 5 x PNP (Max. 30 V DC, 80 mA)
On/Off delay time	0 - 10 000 ms, configurable
Degree of protection	IP67 (only with the USB port cover in place, IEC/EN 60529)
Ambient conditions	
Ambient light immunity	100,000 lux ambent light; 3,000 lux (IEC 61496-3)
Operating temperature	- 30°C to + 60°C
Conformity	This product conforms to all applicable European Union legislation, please refer to the Declaration of Conformity for further information. This product is UL Listed.

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

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^{*} Typical value at 10% reflectivity up to 7 m scanning range or as specified; real values depends on ambient conditions and the target object.
** External electrical sources must be within specified voltages and ensure double insulation from primary voltages. For UL compliance, the device shall be supplied exclusively by class 2 power supplies.