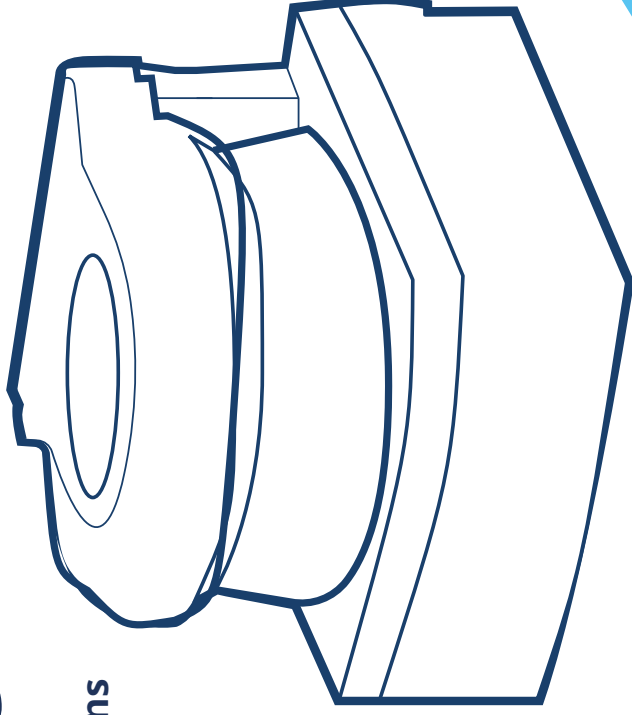


LZR®

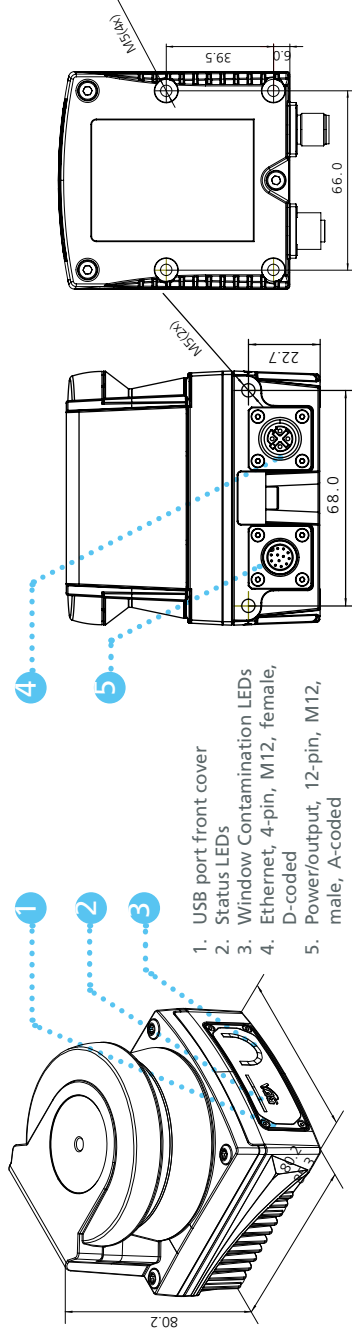
VISIOSCAN AC

Factory & Logistic Automation Solutions
Quick guide



① Intended use

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.



② Safety

The sensor cannot be used for purposes other than its intended use.

The manufacturer of the system incorporating the sensor is responsible for compliance of the system to applicable national and international regulations and safety standards.

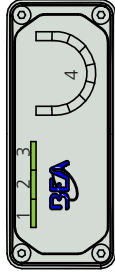
The installer must read, understand and follow the instructions given in the manual linked on the last page of this document.

The manufacturer of the sensor cannot be held responsible for injury or damage resulting from incorrect use, installation or inappropriate adjustment of the sensor.

Caution – use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. For cleaning the optical window, please use only isopropanol cleaners (>99%) with a soft cloth. The isopropanol cleaner can only be used on the optical window.

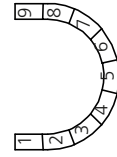


③ LED Indication



1. Power Status
2. Ethernet Connectivity
3. Error Status
4. Window Contamination Status

LED 1	LED 2	LED 3
Power off. No supply voltage.	No ethernet connection.	Power off. No supply voltage.
* Power on.	* Ethernet connection established, no measurement data transfer.	* Normal operation, no error.
External power supply error.	Ethernet measurement data transmission (default off).	Internal error.
* Indication can be turned off.		



The U-shaped LEDs indicate the contamination status of the optical window divided into 9 segments.

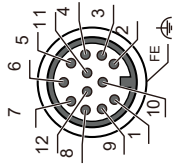
- | | | | | | |
|---|---------------|---|-------------|---|-----------------|
| 1 | 105° ~ 137.5° | 4 | 15° ~ 45° | 7 | -75° ~ -45° |
| 2 | 75° ~ 105° | 5 | -15° ~ 15° | 8 | -105° ~ -75° |
| 3 | 45° ~ 75° | 6 | -45° ~ -15° | 9 | -137.5° ~ -105° |



- LED flashing orange at 0.5Hz: Contamination warning reaching threshold 1.
- LED light up permanently red: Contamination warning reaching threshold 2.

④ PIN Assignment

Power/output: A-coded



Ethernet: D-coded



EthernetConnection

Default IP address: 192.168.1.2
Port: 3050

⑤ Technical Specifications

Technology

Laser scanner, time-of-flight measurement;

Output power < 0.1 mW; Class 1 (IEC/EN 60825-1)

0.08 – 25 m; 7 m @ 1.8% reflectivity; 15 m @ 10% reflectivity;

Scanning range

275°

Scanning angle

0.2° @ 80 Hz

Angular resolution

12 – 24 V DC, - 10% / + 30%

Supply voltage

(External electrical sources must ensure double insulation from primary voltages. For UL compliance, the device shall be supplied exclusively by class 2 power supplies.)

Measurement accuracy

Systematic error ± 10 mm *, Statistical error (1σ) ≤ 6 mm *

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 VDC, 80 mA)

Detection fields

16 field sets x 3 fields each

Ambient conditions

Ambient light immunity

100,000 lux ambient light; 3,000 lux (IEC 61496-3)

Operating temperature

-30 °C to + 60 °C

Height above sea level

< 2000 m

Enclosure

IP67 (IEC/EN 60529)

* Typical value at 10% refl. activity up to 7 m scanning range or as specific c; real values depends on ambient conditions and the target object. Specifications are subject to changes without prior notice. All values measured in specific conditions.

