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INDUSTRIAL PRODUCT DATASHEET

RPLiDAR S2L 360 Degree Laser Range Scanner - 18M Range, 2D point cloud map, 80000 lux light resistance, IP65, high safety for human eye

RPLiDAR S2L 360 Degree Laser Range Scanner: 18m range, 30mm precision, 32KHz sampling, 10Hz rotation, IP65, 80000 lux resistance, IEC-60825 Class One eye safety for robot navigation, obstacle avoidance, and environment scanning.

SKU	UPDATED	PRICE
101110081	2026-11-03 02:30:48	$299.00(Excl. VAT)



Overview



The RPLiDAR S2L 360 Degree Laser Range Scanner generates 2D point cloud maps up to 18m radius with 30mm precision, using 360° DToF laser ranging at up to 32KHz sampling and 10Hz rotational speed. It resists up to 80000 lux light, features IP65 ingress protection and IEC-60825 Class One eye safety, and suits robot navigation, obstacle avoidance, AGV, parking lot monitoring, low-speed unmanned vehicles, multi-point touching, UV mapping, environment scanning and 3D rebuilding.

Key Features

01 **360 Degree DToF Laser Ranging Scanner**

Generate 2D point cloud map information up to 18m radius, within 30mm precision

02 **Stunning Sampling Capability**

Up to 32KHz measurement frequency, 10Hz rotational speed, resist up to 80000 lux light

03 **Prolong Operation Life**

Apply OPTMAG light magnetic fusion technology for support up to five years of reliable running

04 **Suitable for Anywhere**

IP65 high ingress protection, small and compact, capable of every indoor and outdoor deployment

05 **Certified Output Laser Power**

Safe as IEC-60825 Class One eye safety rating

Product Gallery







Applications

- Robot navigation and obstacle avoidance
- Obstacle detecting and avoiding AGV
- Parking lot monitoring
- Environment perception and autonomous movement of low-speed unmanned vehicles
- Multi-point touching and man-machine interaction
- UV mapping and obstacle avoidance
- Environment scanning and 3D rebuilding

Resource Links

- https://www.seeedstudio.com/RPLiDAR-S2L-360-Degree-Laser-Range-Scanner-18M-Range-p-5492.html
- Slamtec Lidar Documentation Hub

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