

MINI NAVI

AB-LD-B01-R30-DRJ45

ATOMBOTIX



- 320° (angle)
- 30 m (distance)
- 0.025° (angular resolution)
- ± 30 mm (absolute accuracy)
- 4 × NPN (input), 4 × NPN (output), TCP/UDP
- 432 kHz (multiple echoes)

Model	AB-LD-B01-R30-DRJ45
Performance Parameters	
Detection Distance	0.05 m – 10 m (reflectivity 10%) 0.05 m – 30 m (reflectivity 90%)
Measurement Method	Pulse Ranging Technology (PRT)
Detection Angle	320°(2D)
Scan Frequency	432 K
Point Cloud Output Resolution	0.025°/0.05°/0.1°/0.25°/0.5°(determined by scanning frequency, scanning motor speed, and single point sampling frequency)
Scanning Motor Speed	15 Hz, 30 Hz (Customizable)
Absolute Accuracy	±20 mm
Measurement Noise	±20 mm
Detect Output Delay	0-500 ms Configurable
Detect Maintain Delay	0-500 ms Configurable
Essential Parameters	
Wavelength	905 nm
Pulse Time	5 ns
Communication	I/O, Ethernet
Status Indicators	4 × LED (green, yellow, orange, red)
Material	Aluminum Alloy, PMMA
IP Ratings	IP65
Electrical Parameters	
Working Voltage	DC 10V – 30V
Working Current	< 145 mA@DC24V
Rated Power	<3 W
Environmental Parameters	
Object Reflectivity	2 – 1000%
Ambient Light	< 80000 Lux (resistant to sunlight)
Usage Environment	-10 °C – 50 °C (indoor use)<80% RH (no frost, no condensation)

