

3D RANGER

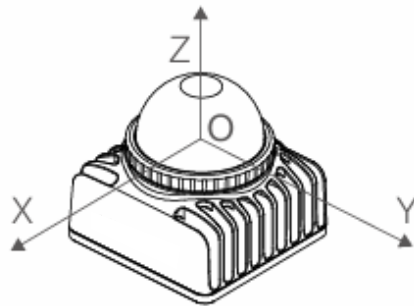
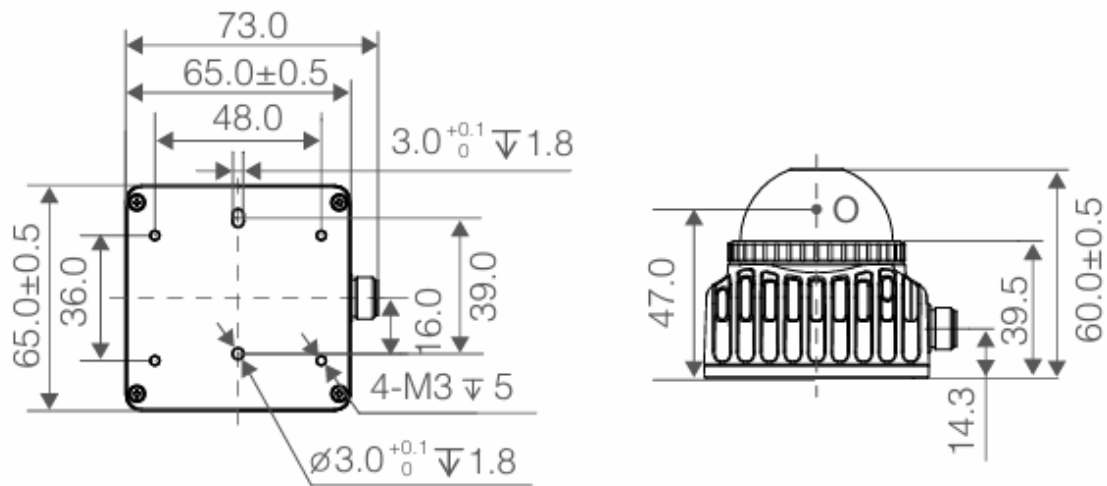
AB-LD-B40-R40-DM12-LX

ATOMBOTIX



- 360° x(59° FOV)
- 0.1 m (Near Blind Spot)
- 40 m (@ 10% Reflectivity)
- 200000 Dots Per Second (Dot Frequency)
- 65 x 65 x 60 (Length x Width x Height (mm))
- 265 g (Net Weight)

Model	3D Ranger
Performance Parameters	
Laser Wavelength	905 nm
Detection Distance	0.1 m-40 m (10% reflectivity) 0.1 m-70 m (80% reflectivity)
Range Precision(1 σ)	≤ 2 cm (80% reflectivity at a distance of 10m) ≤ 3 cm (80% reflectivity at a distance of 0.2m)
FOV	Horizontal: 360° Vertical: -7°-52°
Close Proximity Blind Zone	0.1 m
Angular Precision (1 σ)	< 0.15°
Point Rate	200,000 points/s (first return)
Frame Rate	10 Hz (typical)
False Alarm Rate (@ 100 klx)	< 0.01%
Essential Parameters	
Laser Safety	Class 1 (IEC60825-1:2014)(Eye Safety)
Data Port	100 BASE-TX Ethernet
Data synchronization	IEEE 1588-2008 (PTPv2), GPS
Anti-Interference Function	Available
IMU	Built-in IMU Model: ICM40609
IP Ratings	IP67
Electrical Parameters	
Power	6.5 W (average)
Power Supply Voltage Range	9-27 V DC
Physical Parameters	
Dimensions	65 × 65 × 60 mm
Net Weight	265 g
Environmental Parameters	
Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 70°C



Unit: mm

