

DATASENSING LIDAR COLLISION AVOIDANCE GUIDANCE SCANNER

LGS-A10

LGS-A10
958200003 LIDAR Collision Avoidance Guidance Scanner, ToF, 360°, 10m

- Scanning Angle Of 360°
- Sensing Distance Up To 25 Meters
- For Collision Avoidance & Object Detection
- Based On Time-Of-Flight Infrared Laser Technology



OPIS PRODUKTU

The Datasensing LGS-A10 is a compact, reliable, and rugged 2D LiDAR scanner designed for collision avoidance and object detection, suitable for both indoor and outdoor applications. Utilising time-of-flight (ToF) technology with an infrared laser, it provides precise 360° measurements, making it ideal for automated guided vehicles (AGVs), automated mobile robots (AMRs), and various industrial automation systems.

Key Features:

- **High Precision Measurement:** Offers accurate measurements up to 25 meters, with a 10-meter detection range for object detection.
- **Compact Design:** With dimensions of 65 x 65 x 70 mm and weighing less than 500 grams, the LGS-A10 is suitable for installation in smaller machines and tight spaces.
- **Fast Data Acquisition:** Captures up to 225,000 measured points per second, with selectable rotation frequencies up to 25 Hz and an angular resolution of 0.25° at 10 Hz.
- **Robust Performance:** Operates reliably in various environments, featuring an IP67 mechanical protection rating and an operating temperature range of -10 to +60°C.
- **Easy Integration:** Equipped with an M12 4-pin M Key D Ethernet connection supporting IEEE 802.3u 100Mbps Ethernet, and configurable outputs with up to three simultaneous detection outputs.

The LGS-A10 is user-friendly, with a dedicated interface for quick setup and commissioning. It adopts a UDP standard via Ethernet connection to supply measurement data and offers a suite of physical I/O for monitoring detection and changing zone sets of monitored areas.

This LiDAR scanner is an excellent choice for enhancing safety and efficiency in automated systems, providing reliable collision avoidance and object detection capabilities.

SPECYFIKACJA TECHNICZNA

Czas odpowiedzi	80ms
Długość	65 mm
Dopuszczenia	UL, CE, UKCA, TÜV
Interfejs użytkownika	LGS PRO - configuration tool
Kąt odczytu	360°
Masa	500 g
Materiał obudowy	Aluminium, Poliwęglan

Max. temperatura pracy	60 °C
Max. temperatura składowania	70 °C
Min. temperatura pracy	-10 °C
Min. temperatura składowania	-20 °C
Napięcie zasilania	9-30 V DC
Odległość skanowania max.	25 m
Pobór mocy	5 W
Prąd wyjściowy max.	50 mA
Stopień ochrony IP	IP67
Szerokość	65 mm
Typ światła	Laser
Wskaźnik LED	Tak
Wymiary	65 x 65 x 70
Wysokość	70 mm
Złącze	M12

