

DATASENSING LIDAR NAVIGATION GUIDANCE SCANNER

LGS-N50

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95820001 LIDAR Navigation Guidance Scanner ToF,
360°, 50m

- Scanning Angle Of 360°
- Sensing Distance Up To 50 Meters
- For Natural Or Marker Navigation For Automated Guided Vehicles
- Based On Time-Of-Flight Infrared Laser Technology



PRODUCT DESCRIPTION

LIDAR (Light Detection and Ranging) uses laser-based time-of flight (ToF) technology to construct a 360-degree view for the guidance of Automated Guided Vehicles (AGV), Laser Guided Vehicles (LGV) and Automated Guided Forklifts (AGF).

Datalogic's LGS-N50 is a compact, rugged navigation Lidar which can be mounted on suitable vehicles to provide laser-based navigation by providing distance and intensity measurement to the AGV guidance systems.

With its compact size and simple Ethernet UDP protocol, the LGS-N50 is easy to fit and simple to configure.

Combined with Laser Sentinel safety laser scanners, Datalogic offers manufacturers of Automated Vehicles a complete solution for automated vehicle guidance.

Details of the Basler Blaze ToF camera for machine vision and robot guidance applications can be found [here](#).

Details of Datalogic's safety products in conjunction with LIDAR for AVG applications can be found [here](#).

TECHNICAL DATA

Dimension (mm)	95 x 97 x 116
IP class	IP66

LED indicator	Yes
Lens material	Polycarbonate
Material of body	Aluminium alloy, Polycarbonate
Measurement range	0.2-2m (1.8% reflectivity), 0.2-15m (10%), 0.2-50m (80%)
Output current max	30 mA
Power consumption	7 W
Reading speed	60,000 points per second
Sensing distance max	50 m
Storage temperature max	70 °C
Storage temperature min	-30 °C
Supply voltage	12 - 32 V DC
Temperature operational max	50 °C
Temperature operational min	-20 °C
Type of light	Laser
Weight	900 g
Viewing angle	360°