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DATASENSING LIDAR NAVIGATION GUIDANCE SCANNER

LGS-N50

LGS-N50
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

Approvals	CE, RoHS
Height	116 mm

Integrated communication interface	IEEE 802.3u 100Mbps Ethernet
IP class	IP66
Laser class	Class 1
LED indicator	Yes
Length	95 mm
Material of body	Aluminium, Polycarbonate
Measurement range	0.2-2m (1.8% reflectivity), 0.2-15m (10%), 0.2-50m (80%)
Power consumption	7 W
Protocol	TCP/IP, UDP
Reading speed	60,000 points per second
Sensing distance max	50 m
Supply voltage	12 - 32 V DC
Temperature operational max	50 °C
Temperature operational min	-20 °C
User interface	LGS View - Configuration tool
Viewing angle	360°
Weight	900 g
Width	97 mm