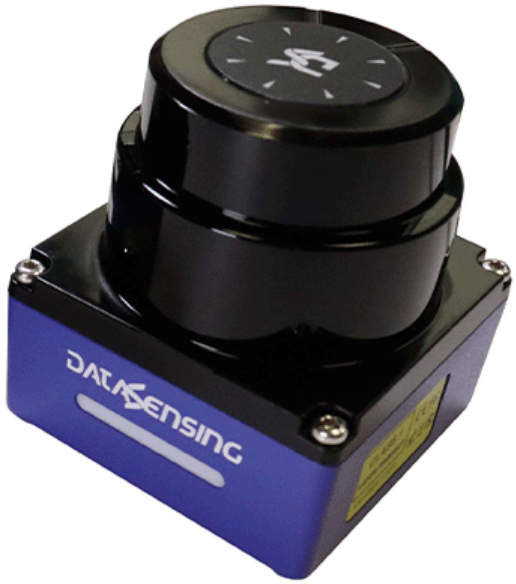

Collision avoidance lidar

958200003

LGS-A10

OVERVIEW

COMPACT, RELIABLE AND RUGGED LIDAR FOR COLLISION AVOIDANCE AND 2D OBJECT DETECTION

The LGS-A10 is a compact, rugged lidar for industrial use, ideal for AMRs and AGVs collision avoidance or 2D object detection, with quick setup and monitoring by dedicated PC interface (LGS_PRO). It ensures, even outdoor, reliable detection by digital I/O and accurate measuring stream trough to Ethernet UDP connection.

- ToF technology on infrared laser
- 2D Measurement data for natural navigation and for object profiling
- 360° measurement for all-round scanning
- Very Compact design suitable also for smaller machines
- High precision and reliable measurement up to 25 meters
- Up to 225000 measured points per second
- Up to 25 Hz selectable rotation frequency
- 0.25° angle resolution
- Dimensions: 65 x 65 x 70 mm
- 10 m x 360° detection field
- 3 simultaneous detection outputs
- Up to 16 zone sets
- 5 selectable detection capabilities
- 10 selectable response times
- Output response time min = 80 ms

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	25 m (Measurement) ; 10 m (Object detection)
Minimum sensing distance (blind zone)	0.1 m
Measurement range @ 10% targe remission	10 m
Angular resolution	0.25° @10Hz / 0.5° @15Hz / 1° @25Hz

Application

Description	Compact lidar LGS-A10
Functions	AMR AGV Collsion avoidance - 2D object detection
Configuration and monitoring interface	LGS PRO

Outputs

Response time	80 ms min
Data Transmitted	angle - distance - signal strenght of each measuring point ; time stamp and more
Ethernet connection	M12 4 pins M Key D -- IEEE 802.3u 100Mbps Ethernet
Configurable Output max number	3 simoultaneous on M12 12 pins connector

Electrical data

Operating Voltage	9...30 Vdc
Emission	Laser infrared

Mechanical data

Dimensions	65x65x70 mm
Weight	<500 g
Material	aluminium / PC
Mechanical protection	IP67

Generical Data

Operating Temperature	-10 ...+60°C

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