



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)
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Minimum sensing distance (blind zone)	0.1 m
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Measurement range @ 10% target remission	10 m
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Angular resolution	0.25° @10Hz / 0.5° @15Hz / 1° @25Hz
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Application

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

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

Operating Voltage	9...30 Vdc
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Emission	Laser infrared
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Mechanical data

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

Operating Temperature	-10 ...+60°C
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