



LGS-N25

COMPACT LIDAR SCANNER

FOR VEHICLES GUIDANCE AND **OBJECT PROFILING**

Very Compact, reliable and rugged Lidar for navigation of automated guided vehicles and for object profiling available also for outdoor applications. Very easy to install and use.

APPLICATIONS

- Automated Guided Vehicles (AGV)
- Automated Mobile Robots (AMR)
- Automated Guided Forklifts (AGF)
- Automated manufacturing machines







- 2D Measurement data for natural navigation and for object profiling
- 360° measurement for all-round scanning

DATASENSING

- 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

CODE DESCRIPTION

LGS Lidar series model Lidar guidance scanner for navigation max measure-ment range 25 m (with 80% reflectivity)



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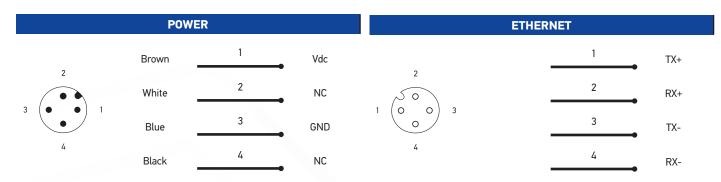
S-N25 COMPACT LIDAR

7		LGS-N25
•	GENERAL DATA	
GS-N25 COMPACT LIDAR	Operating principle	Lidar / pulsed TOF
	Description	LGS-N25
	Diagnostic	Motor / Temperature / Voltage
	Transmitted Data	angle of each measuring point
		distance of each measuring point
		signal strenght of each measuring point
		time stamp in ms each 24h/cycle
	DETECTION CAPABILITIES	
	Nominal sensing distance	25 m
	range @ 10% of remission	0.1 10 m
	range @ 80% remission	0.1 25 m
	Scan Angle	360 °
	Minimum distance of detection	0.1 m
	Measurement accuracy	± 30 mm @ 80% (0.4-25 m)
	Repeatability	≤20 mm @ 80% (0.4-25 m)
	Angular resolution	0.25° @10Hz / 0.5° @15Hz / 1° @25Hz
	EMISSION DATA	0.20 (2.61.27.40 (2.61.27.1 (2.26.2
	Laser wavelenght	905 ± 20 (IR) nm
	Emission	Laser Infrared
	FUNCTIONS	Lasei IIIIIaleu
	Selectable scanning frequency	10/15/25 Hz
	Sensitivity adjustment	GUI
	INPUT/OUTPUT	601
	:	IEEE 802.3u 100Mbps Ethernet
	Output type COMMUNICATION	IEEE OUZ.30 TOUMBPS Ethernet
		TCP/IP
	Communication protocol	UDP
	Measurement data transfer protocol	
	Ethernet connector	M12 4P Female, KEY D
	Network Interface	10/100 Mbit/s Ethernet
	HMI/UI Configuration and monitoring	
	interface(s)	LGS-view viewer and - web browser interface
	LED indicators	Power (Green) / Fault (Red)
	ELECTRICAL DATA	0 2014
	Supply voltage	9 30 Vdc
	Maximum consumption	5W
	MECHANICAL DATA	(F. (F. R)
	Dimensions	65 x65 x70 mm
	Material	Metal - Aluminium / PC
	Connections	M12 4 p MALE
	Weight	<500 g
	Rotanional speed	25 Hz 1500 rpm
	ENVIRONMENTAL DATA	
	Operating Temperature	-10 60 °C
	Mechanical Protection	IP67
	Storage temperature max.	-20 70 °C
	Ambient light immunity	80000 lux

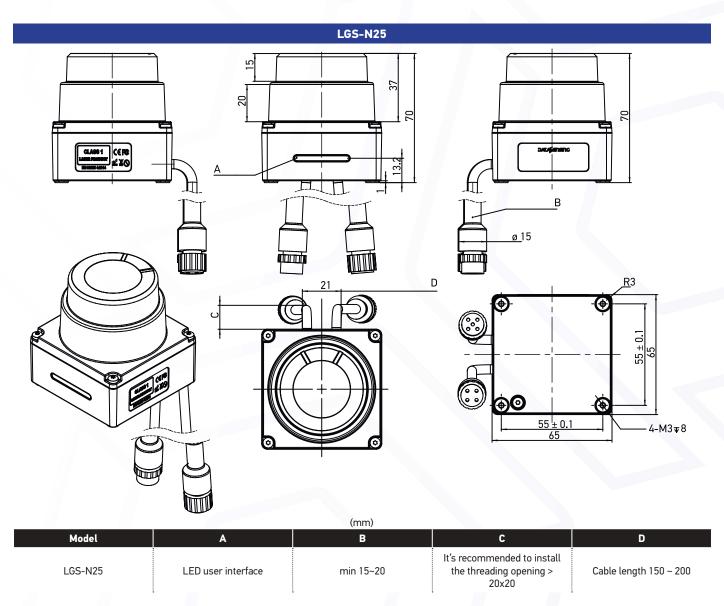
AVAILABLE MODELS

Description	Model	
LGS-N25 compact lidar	LGS-N25 (958200002)	

PLUGS



MECHANICAL DRAWINGS



ACCESSORIES TO BE ORDERED SEPARATELY (MANTEINANCE)

Description	Model
Liquid cleaner antistatic in bottle (1 lt)	SLS-CLEANER (95ASE2990)
Cleaning cloth (22 cm x 22 cm), 100 pcs.	SLS-CLEANER (95ASE3000)

ACCESSORIES TO BE ORDERED SEPARATELY (CABLES)

Description	Cables poles connections	Dimensions	Model
		3 m lenght	CS-A1-02-U-03 (95ASE1120)
		5 m lenght	CS-A1-02-U-05 (95ASE1130)
power cable	M12 4-poles F - free wires	10 m lenght	CS-A1-02-U-10 (95ASE1140)
		15 m lenght	CS-A1-02-U-15 (95ASE1150)
		25 m lenght	CS-A1-02-U-25 (95ASE1160)
	M12 4-poles M, Key D Ethernet - RJ45	1 m lenght	CAB-ETH-M01 (93A051346)
Esta em assa la casa calaba		3 m lenght	CAB-ETH-M03 (93A051347)
Ethernet to host cables		5 m lenght	CAB-ETH-M05 (93A051348
		10 m lenght	CAB-ETH-M10 (93A051391)

