







N25 COMPACT LIDAR

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







- 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

CODE DESCRIPTION

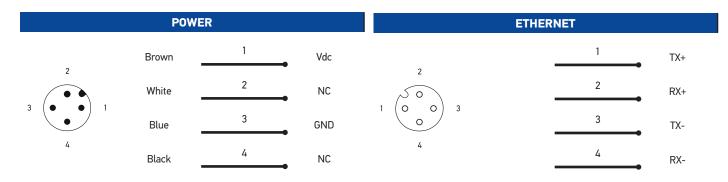
			LGS	-	N	25
series	LGS	Lidar				
model	N	Lidar guidance scanner for navigation				
max measure- ment range	25	25 m (with 80% reflectivity)			•	

	TECHNICAL SPECIF	FICATIONS
	TECHNOAL SI ECH	TOATIONS
7		LGS-N25
	GENERAL DATA	
7	Operating principle	Lidar / pulsed TOF
GS-N25 COMPACT LIDAR	Description	LGS-N25
	Diagnostic	Motor / Temperature / Voltage
		angle of each measuring point
	Transmitted Data	distance of each measuring point
	Transmitted Data	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	0.25 (2.01.27 0.0 (2.01.27) (2.201.2
	Laser wavelenght	905 ± 20 (IR) nm
	Emission	Laser Infrared
	FUNCTIONS	Laser IIIII aleu
	Selectable scanning frequency	10/15/25 Hz
	Sensitivity adjustment	10/13/23 FIZ
	INPUT/OUTPUT	GUI
		IEEE 802.3u 100Mbps Ethernet
	Output type COMMUNICATION	IEEE 802.30 TOUMBPS Ethernet
		TCD/ID
	Communication protocol	TCP/IP
	Measurement data transfer protocol	UDP
	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	
	Supply voltage	9 30 Vdc
	Maximum consumption	5W
	MECHANICAL DATA	
	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

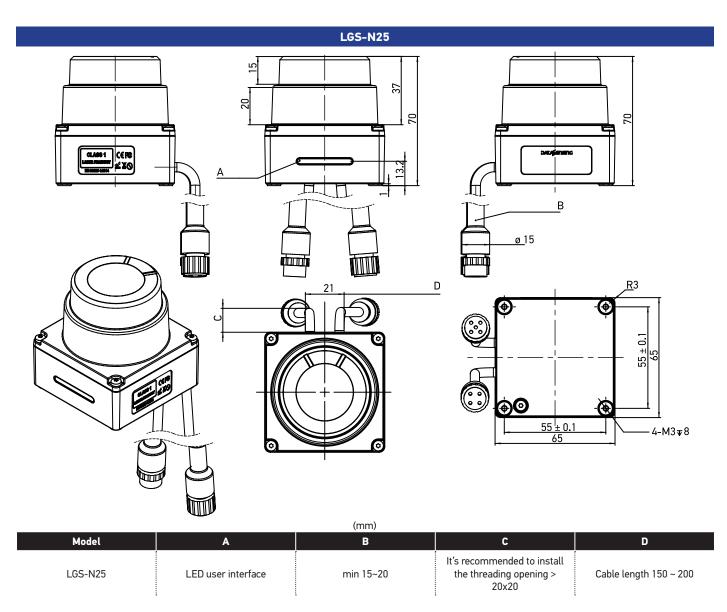
AVAILABLE MODELS

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	
	M12 4-poles F - free wires	3 m lenght	CS-A1-02-U-03 (95ASE1120)	
			5 m lenght	CS-A1-02-U-05 (95ASE1130)
power cable		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 3 m lenght M12 4-poles M, Key D Ethernet	1 m lenght	CAB-ETH-M01 (93A051346)
Esta anno de da la ceda cela con			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)	