

LL-60A LineLIDAR for Traffic Control

Noptel

The compact and lightweight LL-60A LineLIDAR sensor features nitrogen filled gas-tight IP68 design enabling reliable operation under varying temperature and environmental conditions.

This accurate sensor is feasible for various traffic control applications realising many demanding measurement tasks.

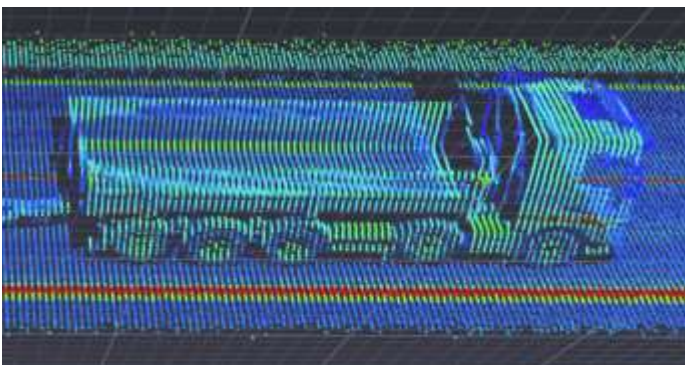
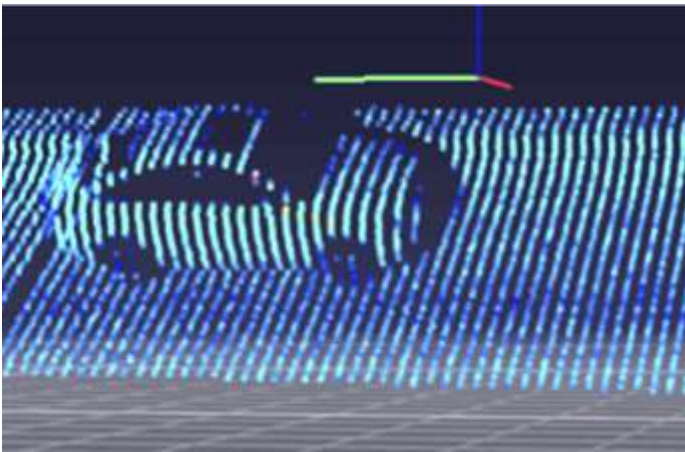


Features

- up to 40 m range
- up to 400 profiles per second
- 60 degree FOV, mm level precision
- angular resolution 0.23 deg
- ethernet connection
- low power consumption
- solid state construction

Applications

- open road tolling
- weigh-in-motion
- ploughing control
- vehicle profiling and classification
- speed violation control
- intersection control
- entrance control



LL-60A LineLIDAR



Technical specifications

Performance Characteristics	Unit	LL-60A	Note
Wavelength	nm	905	Laser safety class 1, (IEC 60825-1:2014)
Profiles per second	Hz	10 - 400	
Horizontal FOV	deg	60	
Horizontal Angular Resolution	deg	0.23	
Vertical FOV	deg	0.1	
Minimum Range	m	1.7	
Maximum Range	m	96	Maximum possible reading
Number of Echoes	-	3	

Typical Performance	Settings		LL-60A	
	Sample Rate Unit	Target Reflectivity Unit	Range m	Precision mm
Range and Precision <small>Strong backlight radiation may reduce performance.</small>	10	54	6	2.2
	10	9	45	10
	10	54	85	25
	400	54	20	25
	400	9	8	10

Mechanical characteristics	Unit	LL-60A	Note
Size (L/W/H)	mm	69 x 94 x 41	
Weight	g	370	
Attachment	pcs	6 / 2	M4 / 1/4"-20 UNC, Doc.Y10044
IP Protection	-	IP68	Nitrogen filled
Case Material	-	Aluminium	

Electrical characteristics	Unit	LL-60A	Note
Connector Type	-	M12	
Interface	-	Ethernet	100 Mbit, UDP
Supply Voltage	V	10 - 30	
Supply Power	W	<2 / <4	Standby / Operational
Transmitter Laser Lifetime	h	80000	

Environment and safety	Unit	LL-60A	Note
Laser Safety Class	-	1	Classification standard (IEC 60825-1:2014)
RoHS Compliance	-	Yes	Directive 2015/863/EU amending directive 2011/65/EU
REACH Compliance	-	Yes	The European Directive REACH 2006/1907/EC
Operating Temperature	°C	-30 ... +60	
Storage Temperature	°C	-40 ... +71	

Specifications are subject to change without notice. Doc.: M50149EE ©Noptel 2024