

N301 Series

Explosion-Proof / Flameproof LiDAR

After rigorous testing and verification, LSLiDAR has launched the N301 series of explosion-proof and flameproof LiDARs specifically designed for complex, flammable and explosive environments. This series of LiDARs is capable of conducting a comprehensive 360° scan of the surrounding environment, achieving precise 2D detection. With a detection range of up to 50m and a measurement rate of up to 20,000 points per second, the LiDARs also boast an IP67 dust and water resistance rating, ensuring stable operation in various harsh environments. Widely applicable in scenarios such as gas stations, chemical plants, liquefied gas stations, oil exploration, ground patrols, and inspection.



Explosion-Proof LiDAR N301
(Ex ib I Mb)



Flameproof LiDAR N301
(Ex d IIC T6 Gb)

Wavelength	905nm	Communication Interface	100M Ethernet
Laser Class	CLASS 1	Output Data	Distance, Angle
Channels	1	Input Voltage	9~32VDC (Typical Value 12/24VDC)
Detection Method	TOF	Drivers	Brushless Motor
Detection Range	10 / 20 / 30 / 40 / 50m	Power Consumption	4W
Distance Resolution	2 mm / 4 mm	Operating Temperature	-20℃ ~ 60℃
Accuracy	±3cm	Anti-light	80 K Lux
Horizontal FOV	360°	Vibration Test	5Hz-2000Hz, 3G rms
Horizontal Resolution	0.09° / 0.18° / 0.36°	Shock Test	500m/sec², lasting for 11ms
FPS	5Hz/10Hz/20Hz	Weight	≈406g(Explosion-Proof)
Data Point Generating Rate	20,000 pts/sec	Dimensions (DxH)	Φ 80x79.1mm(Explosion-Proof)