

TWO-DIMENSIONAL TOF OBSTACLE AVOIDANCE LASER RADAR

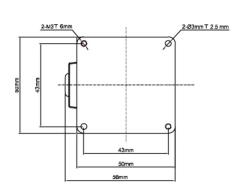
NICLD-05D

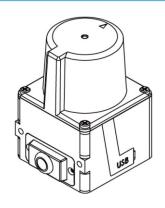
Product parameters

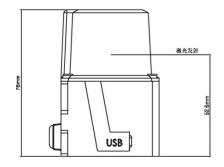
Basic Information		
product name	two-dimensional tof obstacle avoidance laser radar	
Product number	LD-05DN	LD-05DP
	NPN	PNP
Features		
Laser source	905 nm(class I)	
Scan angle range	270°	
scanning frequency	15Hz	
Angle resolution	0.1°	
Work area	0.05m~5m	
Self-learning function	Automatic environment scanning, generating area	
Mechanical/electronic parameters		<u> </u>
Electrical connections	DB15 MALE/SCATTER	
Supply voltage	DC9V~28V	
Power consumption	2W	
Switch drive	DC 30 V 50 mA MAX	
Shell color	Blue	
Protection level	IP65	
weight	150g, no cable	
Size (length × width × height)	50mm×50mm×76mm	
Performance		
Recognizable object shape	Almost any shape	
Measurement error	±3mm	
Number of regional groups	16 regional groups, each containing 3 regions	
interface		
USB	Micro - USB	
Input	GND / NCX 4	
Switch output	NPNx3, device working status indication X1	
Signal output hold time	100ms~10,000ms (adjustable) typical value 330ms	
Response time	Status Indicators	
Status Indicator	Status indication 1, area group indication 2	
Environmental parameters		
Vibration resistant	10-55Hz, amplitude 0.75mm, XYZ three-axis, 2 hours per axis; 50-200hz, 196m/s2 (20G), scanning speed 2min/cycle, XYZ three-axis, 2 hours per axis	
Working temperature	−10°C~+55°C	
Storage temperature range	−30°C~+75°C	
Resistance to ambient light	>15,0	000ux

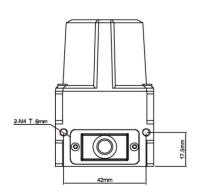


Dimension











Features



5m distance 270°angle



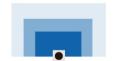
Multi-zone monitoring

Monitoring area independent setting



External device driver

The switch provides DC 30V 50mA driving force



16 regional group settings

Quick configuration fast loading



Automatic learning

Learning based on field scenarios Monitoring profile



Suspend function, take into account production

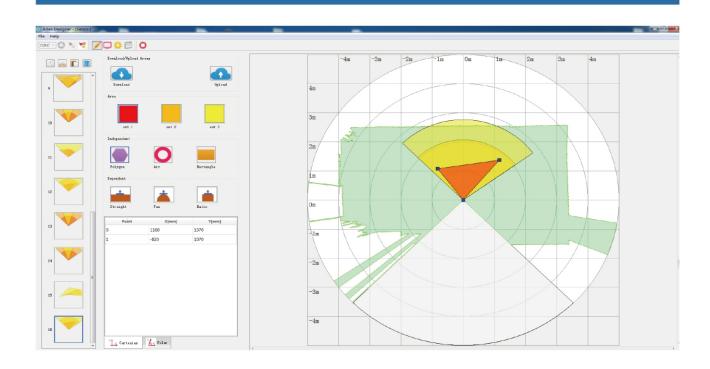
Built-in shutdown and restart function Cooperate with production line to move countermeasures



IP65

Dustproof and waterproof Applicable in harsh industrial environments

Point Cloud



Application



AGV obstacle avoidance



Factory area operation safety protection





Service robot autonomous obstacle avoidance Unmanned near field obstacle avoidance