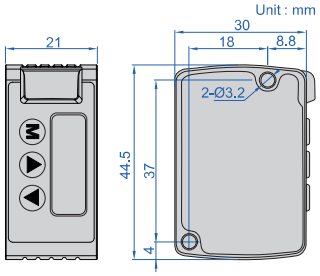
LASER DISPLACEMENT SENSORS

IP67 WATERPROOF





- High accuracy, non-contact measurement, high speed response, multiple measurement modes, environmental adaptability, programmable control, rich data output interface and easy maintenance.
- Can be used in automated production lines, robotic arms, packaging equipment, printing equipment, medical equipment etc.

SPECIFICATION

Code	NPN	LDS-N30	LDS-N50	LDS-N100	LDS-N200	LDS-N400
	NPN+Analog	LDS-N30-MC	LDS-N50-MC	LDS-N100-MC	LDS-N200-MC	LDS-N400-MC
	NPN+RS485	LDS-N30-RS	LDS-N50-RS	LDS-N100-RS	LDS-N200-RS	LDS-N400-RS
Detection method		diffuse reflection				
Basis (center) distance		30mm	50mm	100mm	200mm	400mm
Detection range (F.S.)		25~35mm	35~65mm	65~135mm	120~280mm	200~600mm
Full scale		10mm	30mm	70mm	160mm	400mm
Repeat accuracy		10μm	30μm	70μm	200μm	200~400mm: 600μm 400~600mm: 1500μm
Linear accuracy		±0.2% FS				200-400mm: ±0.2% FS 400-600mm: ±0.3% FS
Temperature drift characteristics		±0.03% FS/°C				
light source	medium	red diode laser, wavelength 655nm				
	output power	<1mW				
	laser class	IEC Class 2				
Light spot diameter		Ø50μm	Ø70μm	Ø120μm	Ø300μm	Ø500μm
Output	switch mode	NPN open collector, ≤50mA/DC 24V, residual voltage<1.5V				
	analog	analogue voltage: 0~5V (alarm: 5.2V), analogue current: 4~20mA (alarm: 0mA), Chinese display switchable				
	operation	Light.on/Dark.on selectable				
Response time		1.5ms/5ms/10ms, switchable				
Power supply		DC12~24V				

No-load current		<30mA (at supply voltage 24V DC), <60mA (at supply voltage 12V DC)
Indicator light		output indicator: yellow, power indicator: green
Protection circuit		reverse polarity protection/surge protection/short circuit protection
Protection level		IP67
Withstand voltage		AC1000V, 50/60Hz, 1min
Vibration resistance		10~55Hz (period 1min), double amplitude 1.5mm, 2H in each X/Y/Z direction
Impact resistance		500m/S² (approx. 50G), 3 times each in X/Y/Z direction
Insulation impedance		50MΩ or more (DC500V megohmmeter)
Material	**cover case**	aluminium alloy
	lens	PMMA
	guidewire	PVC (polyvinyl chloride)
Connection		switching: lead-in type (4-pole, standard cable length 2m), analogue: lead-in type (5-pole, standard cable length 2m)
Ambient illumination		incandescent lamp ≤ 3000lux, sunlight ≤ 20000lux
Ambient temperature		operation: -10~45°C, storage: -20~60°C(non-freezing)
Ambient humidity		operation: 35~85%RH, storage: 35~85%RH (non-condensing)
Weight		85g (include cable)

STANDARD DELIVERY

Main unit	1 pc
Mounting bracket	1 pc
Cable	1 pc