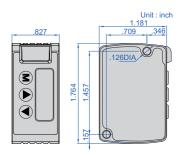
LASER DISPLACEMENT SENSORS





- 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

Part No.	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% F.S.	200-400mm: ±0.2% F.S. 200-400mm: ±0.3% F.S.				
Temperature drift characteristics		±0.03% F.S./°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 78.74") analogue: lead-in type (5-pole, standard cable length 78.74")			
Ambient illumination		incandescent lamp ≤ 3000lux, sunlight ≤ 20000lux			
Ambient temperature		operation: 14~113°F, storage: -4~140°F(non-freezing)			
Ambient humidity		operation: 35~85%RH, storage: 35~85%RH (non-condensing)			
Weight		.19lb(include cable)			

STANDARD DELIVERY

Main unit	1 pc
Mounting bracket	1 pc
Cable	1 pc