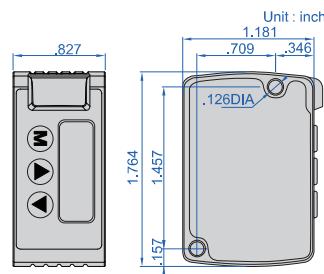


## LASER DISPLACEMENT SENSORS

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

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		
<b>Detection method</b>		diffuse reflection						
<b>Basis (center) distance</b>		30mm	50mm	100mm	200mm	400mm		
<b>Detection range (F.S.)</b>		25~35mm	35~65mm	65~135mm	120~280mm	200~600mm		
<b>Full scale</b>		10mm	30mm	70mm	160mm	400mm		
<b>Repeat accuracy</b>		10µm	30µm	70µm	200µm	200~400mm: 600µm 400~600mm: 1500µm		
<b>Linear accuracy</b>		±0.2% FS			200~400mm: ±0.2% FS 400~600mm: ±0.3% FS			
<b>Temperature drift characteristics</b>		±0.03% FS/°C						
<b>light source</b>	medium	red diode laser, wavelength 655nm						
	output power	<1mW						
	laser class	IEC Class 2						
<b>Light spot diameter</b>		Ø50µm	Ø70µm	Ø120µm	Ø300µm	Ø500µm		
<b>Output</b>	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						
<b>Response time</b>		1.5ms/5ms/10ms, switchable						
<b>Power supply</b>		DC12~24V						

<b>No-load current</b>	<30mA (at supply voltage 24V DC), <60mA (at supply voltage 12V DC)
<b>Indicator light</b>	output indicator: yellow, power indicator: green
<b>Protection circuit</b>	reverse polarity protection/surge protection/short circuit protection
<b>Protection level</b>	IP67
<b>Withstand voltage</b>	AC1000V, 50/60Hz, 1min
<b>Vibration resistance</b>	10~55Hz (period 1min), double amplitude 1.5mm, 2H in each X/Y/Z direction
<b>Impact resistance</b>	500m/S <sup>2</sup> (approx. 50G), 3 times each in X/Y/Z direction
<b>Insulation impedance</b>	50MΩ or more (DC500V megohmmeter)
<b>Material</b>	<b>cover case</b> aluminium alloy
	<b>lens</b> PMMA
	<b>guidewire</b> PVC (polyvinyl chloride)
<b>Connection</b>	switching: lead-in type (4-pole, standard cable length 78.74") analogue: lead-in type (5-pole, standard cable length 78.74")
<b>Ambient illumination</b>	incandescent lamp ≤ 3000lux, sunlight ≤ 20000lux
<b>Ambient temperature</b>	operation: 14~113°F, storage: -4~140°F(non-freezing)
<b>Ambient humidity</b>	operation: 35~85%RH, storage: 35~85%RH (non-condensing)
<b>Weight</b>	.19lb(include cable)

#### STANDARD DELIVERY

<b>Main unit</b>	1 pc
<b>Mounting bracket</b>	1 pc
<b>Cable</b>	1 pc