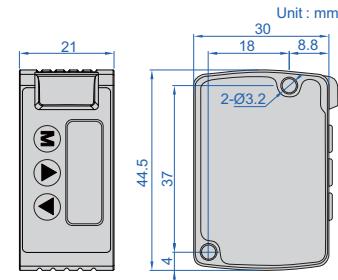


LASER DISPLACEMENT SENSORS

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% 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/S ² (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