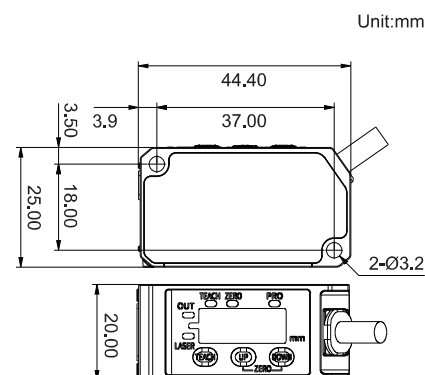


LASER DISPLACEMENT SENSORS



- 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

Code	NPN+Analog current	LDS-N30	LDS-N50	LDS-N100	LDS-N200	LDS-N400
	NPN+Analog voltage	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
Basis (center) distance		30mm	50mm	100mm	200mm	400mm
Defection range (FS)		25~35mm	35~65mm	65~135mm	120~280mm	200~600mm
Full scale		10mm	30mm	70mm	160mm	400mm
Repeat accuracy		5μm	15μm	35μm	100μm	200~400mm: 150μm 400~600mm: 400μm
Linear accuracy		±0.2% FS				200~400mm: ±0.2% FS 400~600mm: ±0.3% FS
Response time		1ms/5ms/10ms				
Temperature drift characteristics		±0.05% FS/°C				
Light source	medium	red diode laser, wavelength 655nm				
	output power	≤1mW				
	laser class	IEC/JIS/GB Class 2, FDA Class II				
Light spot diameter		Ø50μm	Ø70μm	Ø120μm	Ø300μm	Ø500μm
Output	switch mode	NPN open collector, ≤50mA/DC 30V, residual voltage<1.8V				
	analog	analogue voltage: 0~5V (alarm: 5.5V), analogue current: 4~20mA (alarm: 21mA)				
Operation		Light,on/Dark,on selectable				
Power supply		DC12~24V				

Protection level		IP65
Material	cover case	aluminium castings
	front cover	propylene
Connection		lead-in type (5-pole, standard cable length 2m)
Ambient illumination		incandescent lamp ≤ 3000lux
Ambient temperature		operation: -10~50°C, storage: -20~60°C (non-freezing)
Ambient humidity		operation: 35~85%RH, storage: 35~85%RH (non-condensing)
Net weight		50g

STANDARD DELIVERY

Main unit	1 pc
Cable	1 pc