

# Built-in Digital Display Panel CCD Laser Displacement Sensor

## CD3 series 16 types

For details refer  
this catalogue

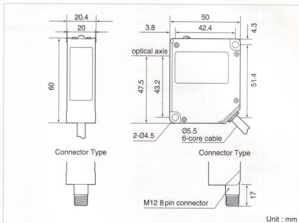


CCD type Displacement Sensor packed in a compact body equipped with easy-to-recognize display. Stable even to colored and shiny objectives

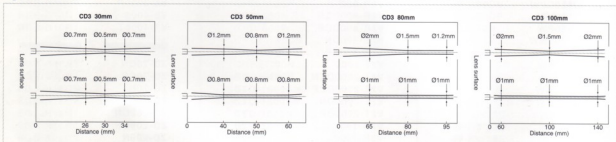


Numerical display  
on the sensor

### Dimensions



### Spot size to distance



### Specifications

Cable type	CD3-30 (N, P)	CD3-50 (N, P)	CD3-80 (N, P)	CD3-100 (N, P)
Connector type	CD3-30C (N, P)	CD3-50C (N, P)	CD3-80C (N, P)	CD3-100C (N, P)
Measuring range	30 +/- 4mm	50 +/- 10mm	80 +/- 15mm	100 +/- 40mm
Light source	Class 2 Laser Diode, Spectral Response 650nm max, 1mW			
Spot size	0.5mm dia.	0.8mm dia.	1x1.5mm	1x1.5mm
Supply voltage	DC12 24V (-5% +10%)			
Current consumption	120mA / DC12V max, 80mA / DC24V max			
Resolution	4μ	10μ	10μ	30μ
Linearity	±1% FS			
Temperature drift	±0.08% FS per Celsius			
Response time	2.2msec max (sensitivity fixed, averaging 1), up to 20.5msec (sensitivity AUTO, averaging 1)			
Output	Analog output Control output			
Timer	NPN or PNP Open collector 100mA / DC24V max, residual voltage 1.8V max. On-delay, Off-delay, One-shot delay switchable			
Protection circuit	Over-current : 250mA or more, Reverse polarity protection			
Ambient condition	Sun-light : 10,000 lux, Incandescent : 3,000 lux			
Ambient temp / Humid	-10 - 40 °C, 35 - 95 % RH			
Protection category	IP67			
Vibration	10 - 55 Hz widths 1.5 mm, X-Y-Z 3 ways for 2 hours			
Warm-up period	approximately 30 minutes			
Indicators	Distance, Stability, Output			
Housing material	Case : Zinc diecast and glass			

- Full Scale: CD3-30N: 8mm/ CD3-50N: 20mm/ CD3-80N: 30mm/ CD3-100N: 80mm
- Resolution and Temperature Drift: by measurement with measuring range center, sensitivity auto, average 64 times, and white aluminum ceramic.
- Linearity: from analogue power current with sensitivity auto, average 64 times and white aluminum ceramic.
- Be noted that some specifications will be changed by product improvement without any notice.
- Specifications are subject to change without prior notice for improvement.