

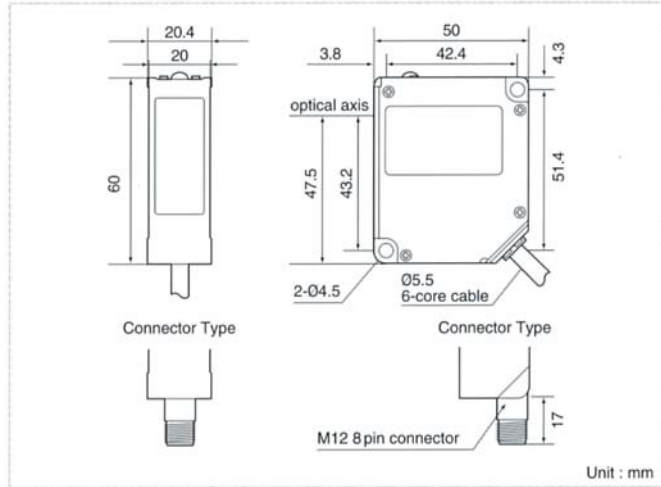
# CD3 series

CCD type Displacement sensor, compact body design with an easy-to-use display. Stable detection of colored or shiny objects.



Numerical display on the sensor

## Dimensions



## Specifications

Type			CD3 Series CCD Laser Displacement					
Model Number	Cable Type	NPN	CD3-30N	CD3-50N	CD3-80N	CD3-100N	CD3-250N	
		PNP	CD3-30P	CD3-50P	CD3-80P	CD3-100P	CD3-250P	
	M12 QD Type	NPN	CD3-30CN	CD3-50CN	CD3-80CN	CD3-100CN	CD3-250CN	
		PNP	CD3-30CP	CD3-50CP	CD3-80CP	CD3-100CP	CD3-250CP	
Sensing Range			30 mm +/- 4mm	50 mm +/- 10mm	80 mm +/- 15mm	100 mm +/- 40mm	250 mm +/- 150mm	
Projected Spot Size			0.5 mm dia.	0.8 mm dia.	1 x 1.5 mm	1 x 1.5 mm	3 x 1.5 mm	
Resolution			4 μm	10 μm	10 μm	30 μm	150 μm	
Light Source			Class 2 laser diode, Spectral response 650 nm, 1 mW					
Supply Voltage			12 ~ 24 VDC (-5% +10%)					
Current Consumption			120 mA / 12 VDC max., 80 mA / 24 VDC max.					
Linearity			+/- 1% F.S.					≥ 250mm +/- 1.5% F.S. < 250mm +/- 2.5% F.S.
Temperature Drift			+/- 0.08% F.S. per °C					
Response Time			2.2 msec. max. (sensitivity fixed, averaging 1), up to 20.5 msec. (sensitivity auto, averaging 1)					
Analog Output			4 - 20 mA					
Digital Output			NPN / PNP Open Collector Transistor, 100 mA / 24 VDC Max. Residual voltage 1.8V max.					
Timer			On-delay, Off-delay, One-shot delay selectable					
Protection Circuit			Over current: 250 mA or more, Reverse polarity protection					
Ambient Condition			Sunlight: 10,000 lux, Incandescent: 3,000 lux					
Ambient Temp. / Humid.			-10° to +40°C, 35 - 95% RH					
Protection Category			IP67					
Vibration			10 to 55 Hz. width's 1.5mm, X-Y-Z 3 ways for 2 hours					
Warm-up Period			approx. 30 minutes					
Indicators			Distance, Stability, Output					
Housing Material			Case: Zinc diecast and glass					
Accessories			Note 1					

Note: Cables are not included with the QD sensor, please order separately.