

Laser Distance Sensor **DPDA-CC50** series

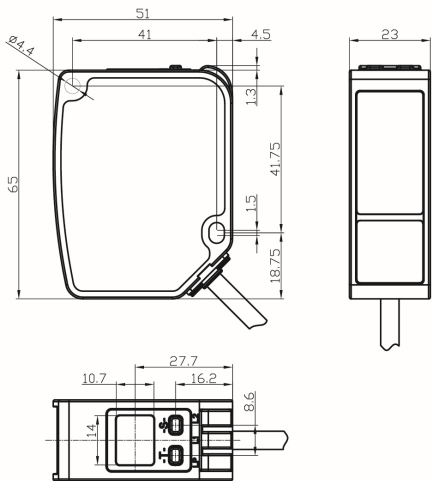
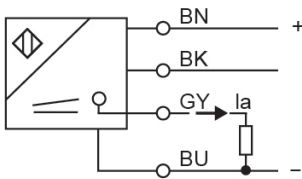
Model	
RS485	DPDA-CC50DGR
4...20mA	DPDA-CC50TGI

Specifications			
Light source	Red Laser (650nm)	Output	Push-pull+RS485 (support ModBus) Push-pull+4...20mA analog output
Laser class	Class II	Integrated function	Slave address & baud rate setting (RS485 Only)/ Status inquiry/Self-diagnostic function/tech-in / output setting/Mean-value setting/ Single point & Window mode switching/Reset
Spot diameter	Φ2.5mm@500mm		
Measuring range	80...500mm		
Linearity @90% reflectivity	±0.3% F.S. (RS485) ±0.4% F.S. (4...20mA)		
Repeated accuracy ①②	30um@80mm	Operating Control	External control (RS485 Only)/Button control
	250um@250mm	Indicator	Power : Green LED; Action : yellow LED;
	1000um@500mm	Display	14*10.7mm OLED Display
Repeated stability③	< 5mm@500mm	Ambient temperature	-10°C...50°C
Resolution	15μm@80mm	Temperature drift	±0.02%F.S./°C
	500μm@500mm	Ambient humidity	35...85% (without condensation)
Supply voltage	10...30 VDC (RS485)	Anti-ambient light	< 3,000lux
	12...24 VDC (4...20mA)	Impulse withstand voltage	1000V/AC 50/60Hz 60s
Voltage drop	<2.5V	Anti-vibration	10Hz...55Hz (amplitude 1.5mm, 2 hours each for x,y,z axis)
Power consumption	≤700mW	Enclosure Rating	IP67
Load current	<200mA	Housing material	Aluminum 6061
Circuit protection	Short circuit ,reverse polarity, surge protection	Dimension	65*51*23mm
Frequency	500Hz	Connection	2m cable (5 wires)

Note ① Repeated accuracy above is the dynamic range for 100 continuous points, tested under 23±5°C with 90% reflectivity white card.

② The statistical data is based on Pauta Criterion (3σ)

③ Repeated stability represents the statistical result acquired at 23±5°C environment temperature with 90% reflectivity in 24 hours.

Dimensions	Circuit Diagram
	<p>4...20mA</p>  <p>RS485</p> 