

High-precision digital display laser distance measuring sensor PDA series



Feature description

- Exquisite appearance and light aluminum housing, easy to mount and dismount
- Convenient operation panel with visualized OLED display to complete all function settings fastly
- Small diameter light spot to accurately measure very tiny objects
- Key or remote teach-in to easily set response time for different applications
- Powerful function setting and flexible output way
- Complete shielded desgin, stronger anti-interference perfomance
- IP67 protection degree, able to work in water or dusty environment



Model specification					
RS-485	PDA-CC100DGRM	420mA	PDA-CC100TGIM		

Specifications				
Measuring range	1501000mm	Temperature drift	±0.02%F.S./°C	
Supply voltage	RS-485:1030VDC;420mA:1224VDC	Indicator	Power indicator:Green LED;Action indicator:Yellow LED	
Consumption power	≤700mW		Alarm indicator:Yellow LED	
Load current	200mA	Protection circuit@	Short circuit,reverse polarity,overload protection	
Voltage drop	<2.5V	Built-in function®	Slave address & Port rate setting; Average setting; Product self-check	
Light source	Red laser(650nm);Laser level:Class 2		Analog map settings;Output setting;Restore factory settings	
Light spot	Ф3mm@1000mm		Single point teach;Window teach;Parameter query	
Resolution	50um@150mm;2000um@1000mm	Service environment	Operation temperature:-10+50°C	
Linear accuracy①②	±0.3%F.S.(150450mm);±0.6%F.S.(4501000mm)		Storage temperature:-20+70°C	
Repeat accuracy①②③	100um@150mm;520um@500mm;4000um@1000mm		Ambient temperature:3585%RH(No condensation)	
Output1	RS-485(Support Modbus protocol)	Anti ambient light	Incandescent light: < 3,000lux	
	420mA(Load resistance < 390Ω)	Protection degree	IP67	
Output2	PUSH-PULL/NPN/PNP And NO/NC Settable	Material	Housing:Aluminum;Lens cover:PMMA;Display panel: PC	
Distance setting	RS-485:Keypress/RS-485 setting	Vibration resistance	1055Hz Double amplitude1mm,2H each in X,Y,Z directions	
	420mA:Keypress setting	Impulse resistance	500m/s²(About 50G)3 times each in X,Y,Z directions	
Response time	2ms/16ms/40ms Settable	Connection way	RS-485:2m 5pins PVC cable;420mA:2m 4pins PVC cable	
Dimension	65*51*23mm	Accessory	Screw(M4×35mm)×2、Nut×2、Washer×2、Mounting bracket、Operation manual	
Display	OLED Display(size:14*10.7mm)			

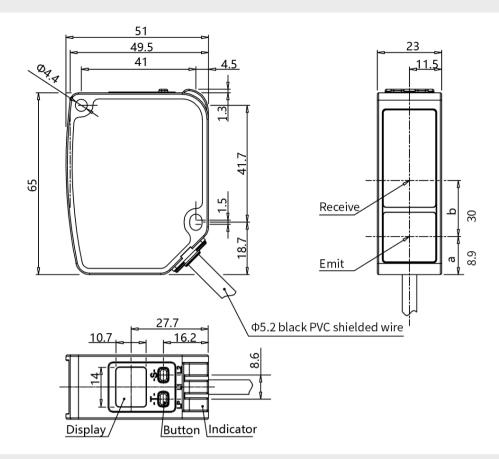
Remark:

- ①Test conditions:Standard data at 23 ± 5 °C; Supply voltage 24VDC;30 minutes' warmup before test; Sampling period 2ms; Average sampling times 100; Standard sensing object 90% white card
- ②The statistical data follows the 3σ criteria

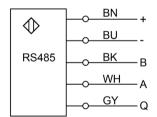
- ⑤Protecion circuit only for switch output
- ⑥Product operation steps and precautions in "Operation manual"



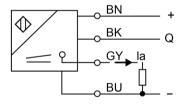
Dimension



Wiring diagram



Serial communication RS-485



Analog output 4...20mA

Remark: The sensors are equipped with shielded cables,Q is the switch output.

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