

High-Speed Laser Scanner

SC-V Series



Ask SENPUM

+86-755-83330055

Fast Delivery Standard Models



Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



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High-speed detection

Ultra-fast scanning speed of up to 25,000 times per second, with a single scan taking only 40 ms.



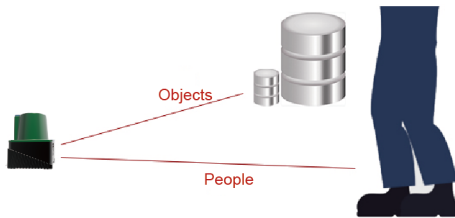
Dirt-resistant

IP65 protection rating prevents dust interference and improves production efficiency.



High-precision detection

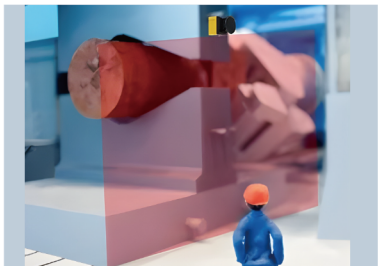
Distinguishes between people and objects, comprehensively detecting minute differences in object reflection.



Applications



Outdoor heavy equipment collision prevention



Entry protection



Logistics transportation

Product List

Type	Detection radius	Output type	Model	Appearance
High-speed obstacle avoidance type	6 m (70% reflectance white object) 2 m (10% reflectance black object)	PNP	SC-V06P	
		NPN	SC-V06N	
		PNP	SC-V06GP	
		NPN	SC-V06GN	
	10 m (70% reflectance white object) 4 m (10% reflectance black object)	PNP	SC-V10P	
		NPN	SC-V10N	
		PNP	SC-V10GP	
		NPN	SC-V10GN	
High-speed measurement type	4 m (10% reflectance black object)	Ethernet, ROS, Windows, and Linux drivers available	SC-V10MGS	
	8 m (10% reflectance black object)		SC-V20MGS	
	10 m (70% reflectance white object) 4 m (10% reflectance black object)		SC-V10MS	
	20 m (70% reflectance white object) 8 m (10% reflectance black object)		SC-V20MS	
	6 m (70% reflectance white object) 2 m (10% reflectance black object)	RS232 output	SC-V06MGST	

Laser Scanners

SC-S

SC-V

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact Sensors

Area Sensors/
Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacement
Sensors

Laser Micrometers

Confocal Displacement
Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature
Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators



SENPU M

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SC-V

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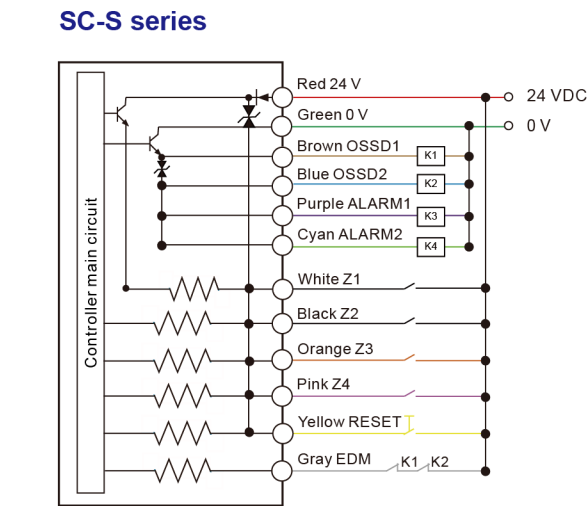
Static Eliminators

SC-V

High-Speed Laser Scanner

Specifications										
Type		High-speed obstacle avoidance type				High-speed measurement type				
Model		SC-V06N	SC-V06GN	SC-V10N	SC-V10GN	-	-	SC-V10MS	SC-V20MS	-
		SC-V06P	SC-V06GP	SC-V10P	SC-V10GP	SC-V10MGS	SC-V20MGS	-		SC-V06MGST
Output type		NPN / PNP				Ethernet				RS232 output
Detection radius		Wavelength 905 nm, Class I laser products								
Scanning angle range		270°								
Measuring accuracy		Standard, ±4 cm@1sigma				Standard, ±4 cm@1sigma		High precision type, ±2 cm@1sigma		
Angular resolution		0.5°				0.33°				
Ambient temperature	Work	-10 to +55 °C (no frost or condensation)								
	Storage	-40 to +70 °C								
Ambient humidity	Work	35 to 85% RH								
	Storage	35 to 95% RH								
Light interference resistance		15,000 lux								
Vibration resistant		Frequency 10 to 55 Hz; Amplitude: 0.35±0.05 mm; Scanning times: three axes, 20 times per axis								
Shock resistant		Acceleration 10 g; pulse duration: 16 ms; number of collisions: three axes, 1000±10 per axis								
Measurement error		±4 cm								
Protection class		IP65								
Dimensions		62 × 64 × 80 mm								
Power voltage		DC 9 V to DC 30 V								
Power consumption		< 3 W (typical value)								
Configurable functions	Defense zone configuration	Users can configure the SC-V's protection zone to the desired shape using the configuration software.								
	Response time	80 ms (2-turn scan) to 640 ms (16-turn scan), default 80 ms								
	Area group switching	4 groups of external input signals (Z1, Z2, Z3, Z4) to realize the switching of 16 area groups, default Z1, Z2, Z3, Z4 is not connected when the area group 1 work								
	Working mode	SC-V offers 4 operating modes, with Mode 1 as the default								
Mounting bracket (sold separately)		Horizontal/vertical/vibration damping/shield mounting optional								

I/O Circuit Diagrams



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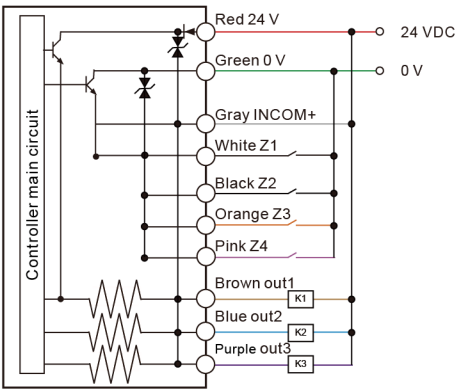
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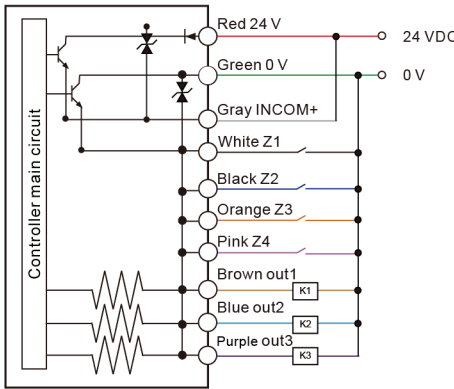
I/O Circuit Diagrams

SC-V*N/P

NPN output type

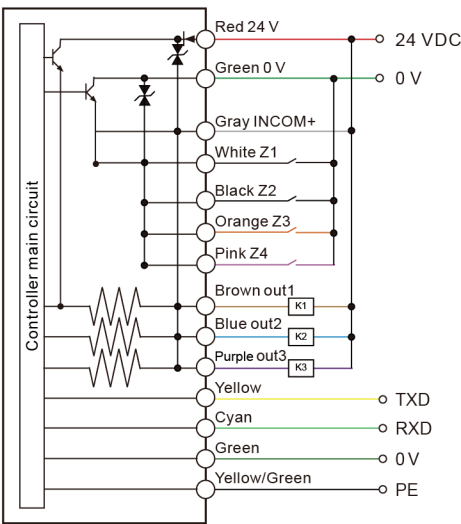


PNP output type

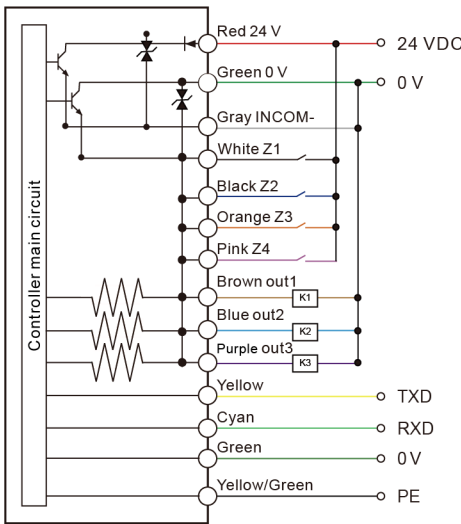


SC-V*GN/P

NPN output type

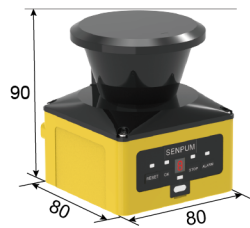


PNP output type



Dimensions

SC-S Series



Horizontal mounting bracket
OW-SC-SSZ

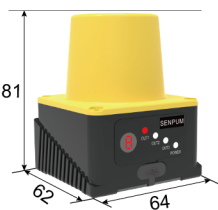


Vertical mounting bracket
OW-SC-SCZ



Shield mounting bracket
OW-SC-SFZ

SC-V Series



Horizontal mounting bracket
OW-SC-VSZ



Vertical mounting bracket
OW-SC-VCZ



Shield mounting bracket
OW-SC-VFZ



Vibration-damping mounting bracket
OW-SC-VJZ

Unit: mm

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