



SG5050/5055

Sensor head

Specifications

Model	SG5050/5055	
Reference distance (RF)	50mm	
Measuring range	-9mm-8mm	
Light source	Light source wavelength	655nm
	Laser class	Class II
	Laser output power	5mW
Laser point diameter (Light dot size)	Small laser point	Φ75μm
	Wide laser point	75*400μm
Repeatability ^①	0.025um	
Linearity	±0.02% F.S.	
Temperature characteristics	0.01% F.S./°C	
Sampling refresh rate (Hz)	1/2/5/10/20/50/88kHz (Choose from 7 levels)	
I/O	Communication port	1 100Base-TX/1000Base-T Ethernet interface, 1 RS232
	Analog output	4-channel analog outputs, supports analog voltage and analog current switching
	Encoder input	1 set of differential encoders
	IO input	14 channels, supports timing, zeroing, reset, laser control, recipe switching and other functions.
	IO output	16 channel, determines status of output.
Operating temperature	0-50°C	
Storage temperature	-20-70°C	
Working humidity	35%-85% no condensation	
ESD protection	Contact discharge 4kV, air discharge 8kV, conforms with IEC61000-4-2 standard	
EFT protection	Power port 2kV/5 or 100kHz, signal port 1kV/5 or 100kHz, conforms with IEC61000-4-4	
Bumps	50Gs/3ms on each axis, conforms with IEC 68-2-27 Ea	
Vibrations	10Gs (10-500Hz), conforms with IEC 68-2-6 Fc	
IP level	IP67, conforms with IEC 60529 standard	
Dimensions (mm)	69x71x47	
Data cable (wiring) model	SCB-GICAM-HA2-3m/5m/10m	
Weight (Including cables)	323g	

Note: ① Obtained from 4096 tests at reference distance.

Product Dimensions

