



SG5020/5025

Sensor head

Specifications

Model		SG5020/5025
Reference distance (RF)		20mm
Measuring range		-3mm-3mm
Light source	Light source wavelength	655nm
	Laser class	Class II
	Laser output power	5mW
Laser point diameter (Light dot size)	Small laser point	Φ45μm
	Wide laser point	45*400μm
Repeatability ^①		0.02um
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)		60x61x41
Data cable (wiring) model		SCB-GICAM-HA2-3m/5m/10m
Weight (Including cables)		324g

Note: ^① Obtained from 4096 tests at reference distance.

Product Dimensions

