



SGI050/055

Sensor head

Specifications

| | | |
|---------------------------------------|-------------------------|---|
| Model | | SGI050/055 |
| 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*480μm |
| Repeatability ^① | | 0.1um |
| Linearity | | ±0.05% 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 RS485 |
| | Analog output | 1-channel analog outputs, supports analog voltage and analog current switching |
| | IO input | 2 channels, timing, zeroing and single-ended encoder function multiplexing. |
| | IO output | 4 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) | | 72x71x50 |
| Data cable (wiring) model | | SCB-GICAM-HA1-3m/6m/10m |
| Weight (Including cables) | | 323g |

Note: ① Obtained from 4096 tests at reference distance.

Product Dimensions

