



SRI7400R

All-in-one 3D Laser Profiler

Specifications

| | | | |
|----------------------------------|---|---------------------------|-------|
| Model | SRI7400R | | |
| Reference distance (CD) | 400mm | | |
| Measurement range | Z-axis height (FS) | +115mm, -224mm (FS=339mm) | |
| | X-axis width | Near side | 146mm |
| | | Reference Distance | 195mm |
| Remote side ^① | 300mm | | |
| Light source | Light source wavelength | 660nm | |
| | Laser class | 2M | |
| | Laser output power | 10mW | |
| Repeatability | Z-axis (height) ^② | 05μm | |
| | X-axis (width) ^③ | 20μm | |
| Linearity | Z-axis (height) | ±0.02% F.S. | |
| Profile data interval | X-axis (width) | 90μm | |
| X-axis profile points | 3200 | | |
| Scanning speed | 750~10000Hz | | |
| Temperature characteristics | 0.01% F.S./°C | | |
| Data interface | 1 Ethernet interface 100Base-TX/1000Base-T | | |
| Input | Differential encoder (Trigger) ^④ , start signal ^⑤ | | |
| Input voltage | DC 24V (45W) | | |
| Working temperature | 0 ~ 50°C | | |
| Storage temperature | -20 ~ 70°C | | |
| Working humidity | 35% ~ 85% No condensation | | |
| ESD protection | Contact discharge 4kV, air discharge 8kV, comply with IEC 61000-4-2 | | |
| EFT protection | Power port 2kV/5 or 100kHz, signal port 1kV/5 or 100kHz, comply with IEC61000-4-4 | | |
| Shock resistance | Each axis 50Gs/3ms, comply with IEC 68-2-27 Ea | | |
| Vibration resistance | 10Gs (10-500Hz), comply with IEC 68-2-6 Fc | | |
| Protection level | IP67, comply with IEC 60529 | | |
| Data cable (network cable) model | L type: SCB-HNET-HR2Z-3m/6m/10m I type: SCB-HNET-HB2Z-3m/6m/10m | | |
| Data cable (I/O cable) model | L type: SCB-HIO-HR2Z-3m/6m/10m I type: SCB-HIO-HB2Z-3m/6m/10m | | |
| Dimension (mm) | 200.5 x 54 x 94mm | | |
| Weight | Approximately 1.2kg | | |

Notes:

- ① The value achieved by increasing the profile data interval.
- ② The value was obtained through 4096 average static tests.
- ③ The value under the nominal profile data interval.
- ④ Only supports 5V differential signals, other level signals require external current-limiting resistors; Encoder input and pulse triggered input port multiplexing.
- ⑤ Only signals with an input voltage of 24V are supportmultiplexing.

Structural Dimensions

