



SR7140
Sensor head

Specification

Model	SR7140		
Reference distance (CD)	140mm		
Measuring range	Z-axis height (FS)	24mm	
	X-axis width	Near-end	89mm
		Reference distance	95mm
		Far-end	96mm
Light source	Light source wavelength	405nm	
	Laser class	2M	
	Laser output power	10mW	
Repeatability	Z axis (height)	0.5um	
	X-axis (width)	8um	
Linear	Z axis (height)	±0.05% of FS	
Contour data interval	X-axis (width)	30um	
X-axis contour points	3200		
Scanning speed (Hz)	2500-10000		
Temperature characteristics	0.02% of F.S./°C		
I/O interface	8 programmable input interfaces, 8 programmable output interfaces		
Encoder interface	Single-ended and differential encoder each		
I/O	1 RS232 interface, 1 100Base-TX/1000Base-T Ethernet interface		
Operating temperature	0-50°C		
Storage temperature	-20-70°C		
Working humidity	35%-85% without condensation		
ESD protection	Contact discharge 4kV, air discharge 8kV, conforms with IEC61000-4-2		
EFT Protection	Power port 2kV/5 or 100kHz, signal port 1kV/5 or 100kHz, conforms with IEC61000-4-4		
Impact	50Gs/3ms per axis, conforms with IEC 68-2-27 Ea		
Vibration	10Gs (10-500Hz), conforms with IEC 68-2-6 Fc		
IP rating	IP67, conforms with IEC 60529		
Dimensions (mm)	146x 93x48		
Data cable (wiring) model	SCB-HCAM-HB1-3m, SCB-HCAM-HB1-10m		
Weight	730g		

Product Size

