Product selection guide



SCS30T · Series

Applications & Features

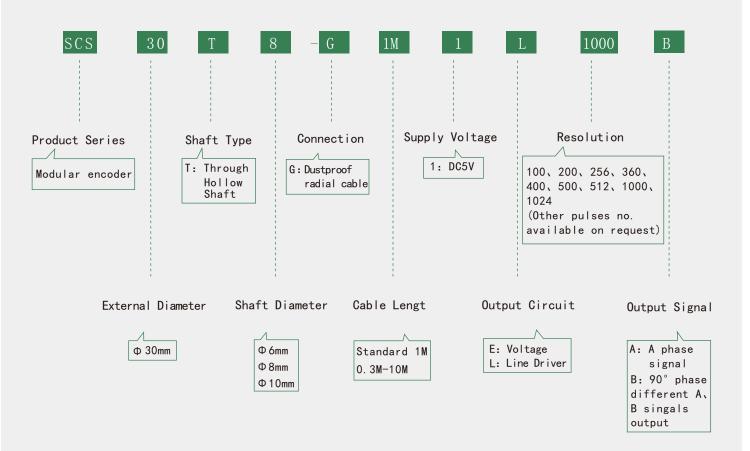


The SCS30T series are high performance, low cost, two channel optical incremental encoders. Each encoder contains a lensed LED source, an intergrated circuit with detectors and circuitry, and a code-wheel which rotates between the emitter and detector IC. These encoders may be quickly and easily mounted to a motor. The quadrature signals and the index pulse are accessed through four 0.025 inch square pins located on 0.1 inch centers. Features:

No signal adjustment required, low cost, resolutions up to1024 counts per revolution; Small size; TTL compatible. Applications:

The SCS30T series provide motion detection at a low cost, making them ideal for high volume applications. Typical applications include printers, plotters, tape drives, positioning tables, and automatic handlers.

Part Number



Electrical Specifications

Output signals	A, B phase
Current consumption	0-5mA
Output current	≤25mA
Response frequency	0-20Hz(Voltage output), 0-50Hz(Line driver output)
Output phase difference	90° ±45°
Supply voltage	5V DC±5%
Signal level	VH≥85% Vcc, VL≤0. 3V
Number of pulses	100、200、256、360、400、500、512、1000、
	1024(Other pulses no.available on request)
Output circuit	Line driver, Voltage

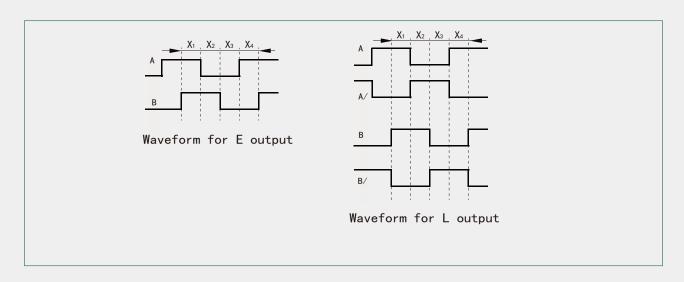
Mechnical Specifications

Rotor inertia of code-wheel	Approx. 0. 6gcm ²
Hollow shaft diameter	≤8mm
Shock resistance	980m/s ² , 6ms, 2times each on XYZ
Vibtation proof	50m/s ² , 10-200Hz, 2 hours each on XYZ
Working life	MTBF≥50000h(+25° C, 2000rpm)
Weight	Apporox. 10g

Environmental Specification

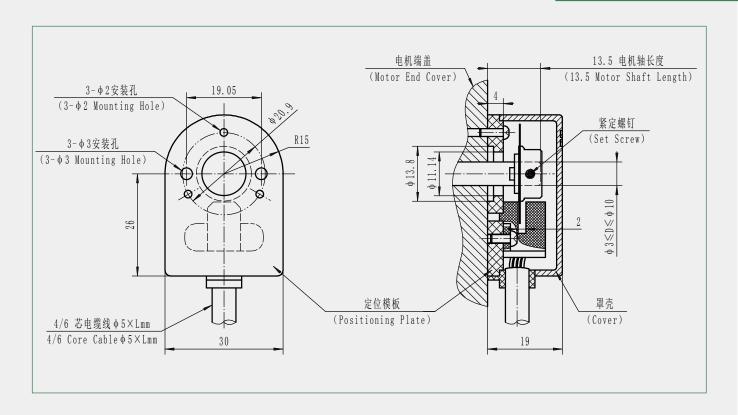
Working humidity	30-85%(No condensation)		
Storage temperature	-40° C-85° C		
Working temperature	-40° C-85° C		
Weld temperature	≤260° C		
Protection class	IP50		

Output Waveform



 90° phase difference of A and B signals. The picture shows the clockwise (CW) wavefrom from the shaft side.

Dimension



Connections

Cable Color	Black	Red	Green	White	Brown	Gray
Line Driver Output	OV	Vcc	Α	В	-A	-В
Cable Color	Black	Red	Green	White		
Voltage Output	OV	Vcc	A	В		

