



SANSHENG
SENSOR



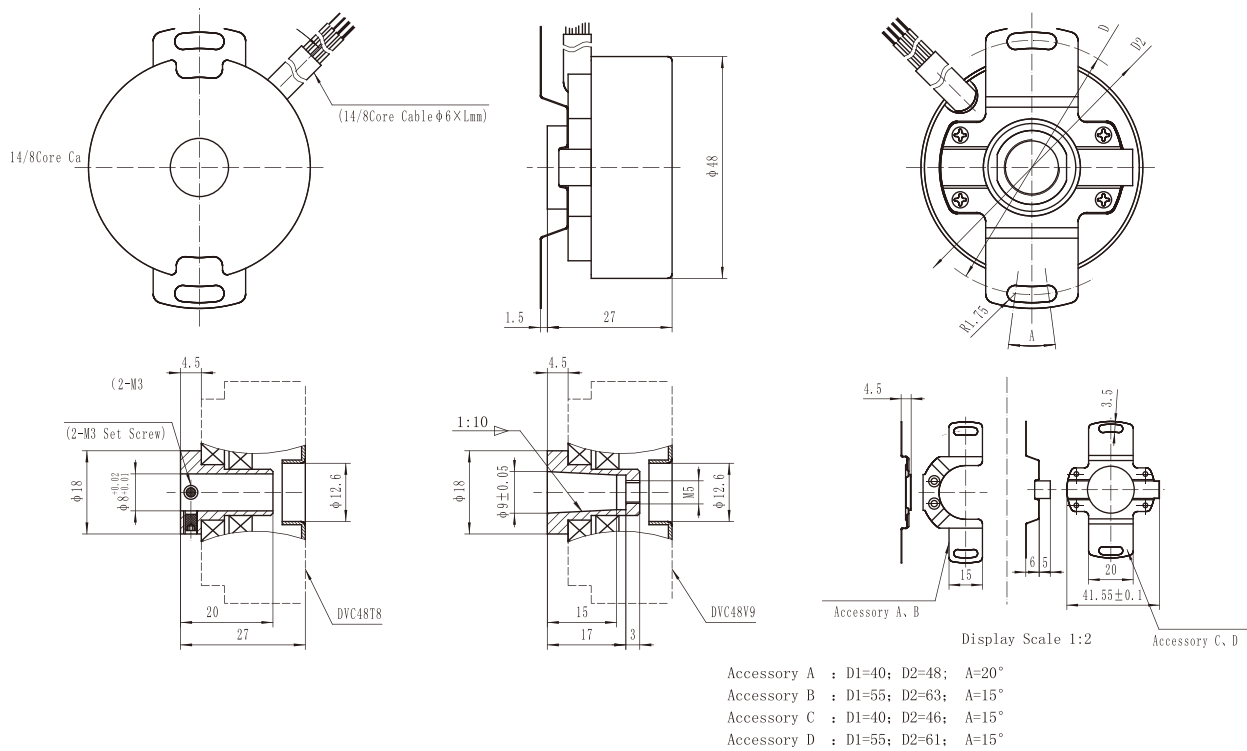
Product Selection Guide

SVC48T Applications & Features

Compact, ultra-thin design, high precision.
The maximum resolution up to 8192ppr.
Straight and taper shafts are optional.
Integrated optoelectronic components.
Anti-interference ability.



Mechanical Drawing



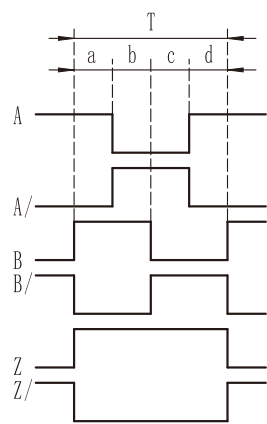
Electrical Specifications

	Standard Type	Less Wiring Type
Output Type	Square Wave (TTL)26LS31	
Supply Voltage (DC)	5V $\pm$ 5%	
Current Consumption	$\leq 60mA$	$\leq 80mA$
Max. Frequency Response	300kHz	
Rise & Fall Time	100nec Max	
Operating Temperature	-20~+85 C	
Storage Temperature	-30~+120 C	
Weight	0.05kg Max	
Protection Class	IP 50	

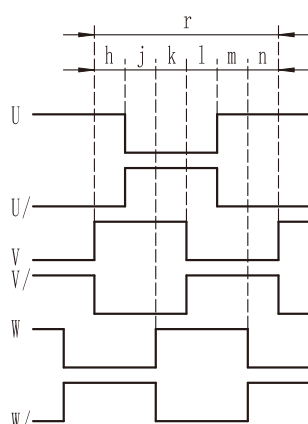
Mechanical Specifications

	Standard Type
Max. Speed	8,000rpm
Starting Torque	9.8 $\times$ 10N·m (100gk·cm Max)
Moment of Inertia	6.5 $\times$ 10kg·m ($\phi 5g$ ·cm Máx)
Mounting Tolerance	Radial Deviation 0.05mm TIR Max
	Axial Deviation 0.2mm Max
	Angle Deviation 0.1° Max
Shaft & Bearing failure strength	$\geq 650N$
Axial Pressure $\pm 10N$	Displacement of axis within $\pm 0.005mm$

Output Waveform



Picture 1

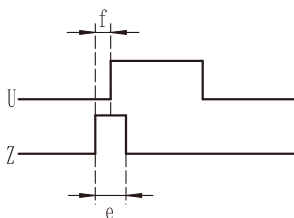


Picture 2

$$a.b.c.d=\frac{T}{4} \pm \frac{T}{4} \quad e= \tau, \frac{T}{2}, \frac{T}{2}$$

f: from Uch(rise edge)to Zch center < ± 1°

pole	h,j,k,l,m,n	r
4	30 ± 1.5°	180°
6	20 ± 1.5°	120°
8	15 ± 1.5°	90°



Picture 3

Electrical Connections

Standard Type

Color	Red	Black	Gray	Green	Yellow	Brown	Blue	Orange
Signal	DC+5V	GND	A	B	Z	U	V	W

Color	WHT/GRY	WHT/GRN	WHT/YE L	WHT/BRN	WHT/BLU	WHT/ORN	Shield
Signal	$\bar{A}$	$\bar{B}$	$\bar{Z}$	$\bar{U}$	$\bar{V}$	$\bar{W}$	G

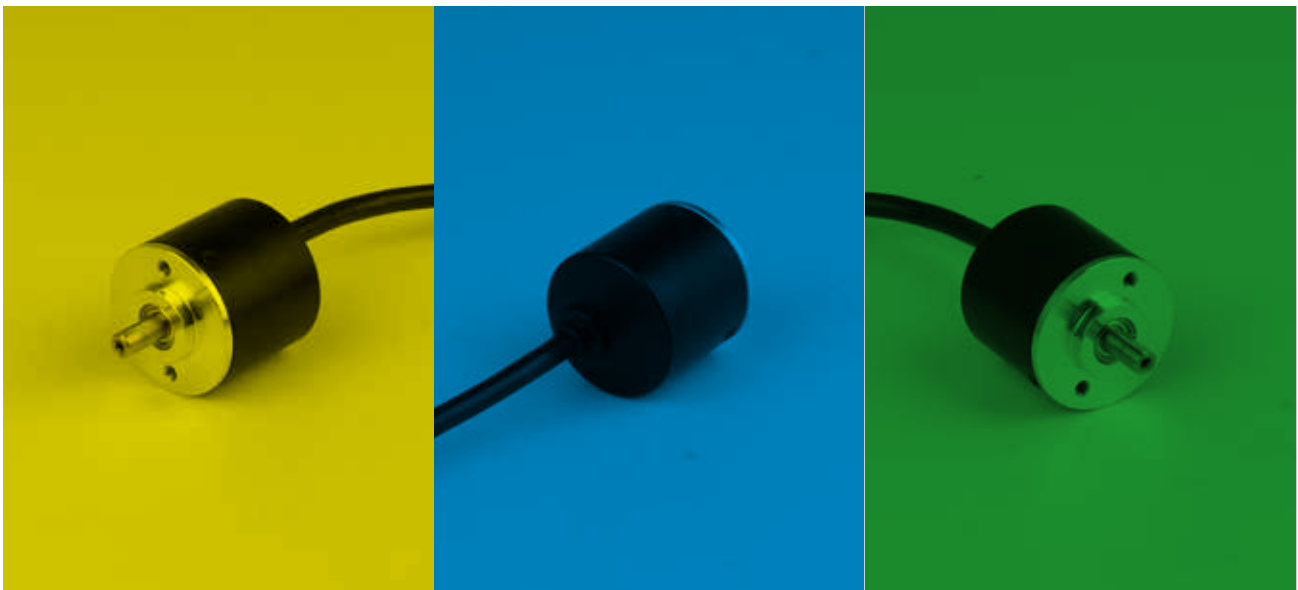
Less Wiring type

Color	Red	Black	Gray	Green	Yellow	Brown	Blue	Orange	Shield
Signal	DC+5V	GND	U/A	V/B	W/Z	U/A	V/B	W/Z	G

Order Information

S Product Class	VC Product Type	48 Outer Diameter	V Shaft Type	9 Shaft Diameter	☐ Accessory	G Termination
S Common	Servo Encoder	Φ48mm	V: Taper Hole T: Straight Hole	Φ8mm Φ9mm	A.B.C.D.E	G: Dustproof Radial Cable
☐ Cable Length	1 Supply Voltage	L Output Type	☐ Resolution	B Output Signal	M Index Signal	4P No. of Poles
Standard 0.3mm	1: DC5V	L: Line Driver	1000ppr 1024ppr 2048ppr 2500ppr 5000ppr 8192ppr	A: Aphase signal B: 90° phase different A-B signals output	M: Z Signal	4P: 8 poles

E.g : SVC48T8A-G0.3M1L-2500BM4P



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