



SANSHENG
SENSOR



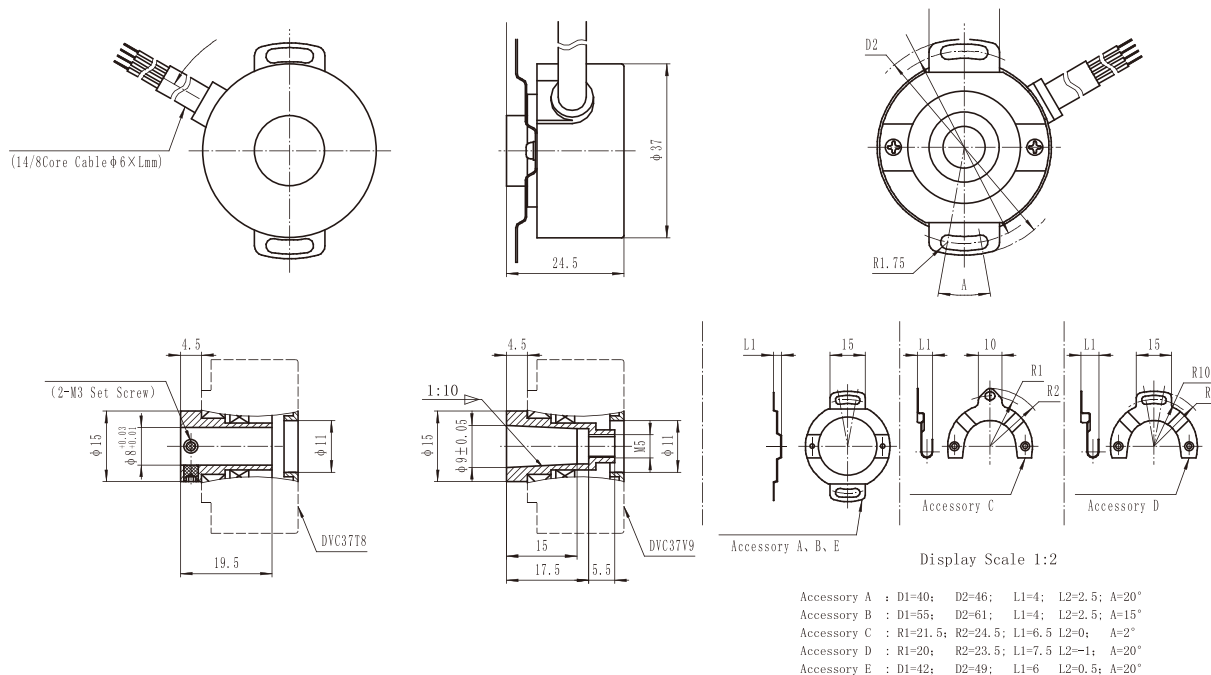
Product Selection Guide

SVC37T Applications & Features

Compact, ultra-thin design, high precision.
The maximum resolution up to 2500ppr.
Straight and taper shafts are optional.
Integrated optoelectronic components.
Anti-interference ability.



Mechanical Drawing



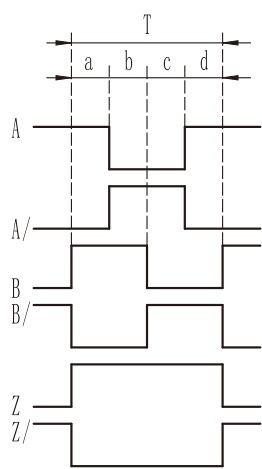
Electrical Specifications

	Standard Type	Less Wiring Type
Output Type	Square Wave (TTL)26LS31	
Supply Voltage (DC)	5V $\pm$ 5%	
Current Consumption	$\leq 60\text{mA}$	$\leq 80\text{mA}$
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	

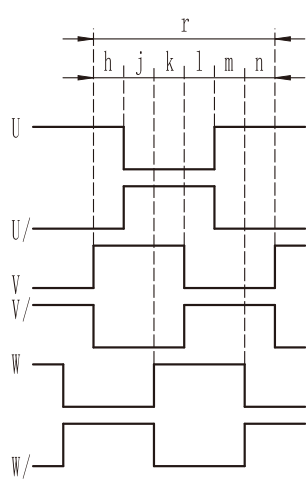
Mechanical Specifications

	Standard Type
Max. Speed	8,000rpm
Starting Torque	9.8 $\times$ 10N·m (100gk·cm Max)
Moment of Inertia	6.5 $\times$ 10kg·m (65g·cm M $\ddot{a}$ x)
Mounting Tolerance	Radial Deviation 0.05mm TIR Max
	Axial Deviation 0.2mm Max
	Angle Deviation 0.1° Max
Shaft & Bearing failure strength	$\geq 650\text{N}$
Axial Pressure $\pm 10\text{N}$	Displacement of axis within $\pm 0.005\text{mm}$

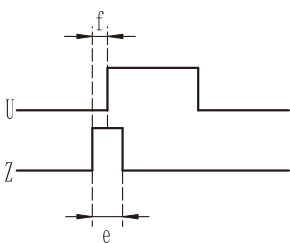
Output Waveform



Picture 1



Picture 2



Picture 3

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

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°

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

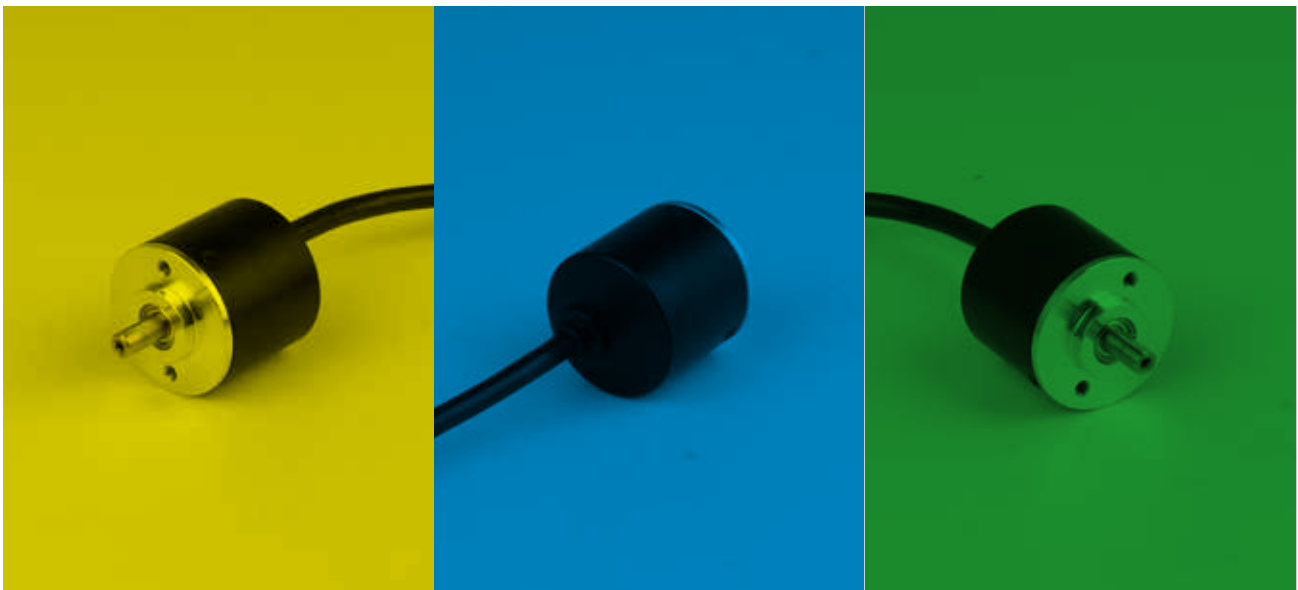
Less Wiring Type

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

Order Information

S Product Class	VC Product Type	37 Outer Diameter	V Shaft Type	9 Shaft Diameter	 Accessory	G Termination
S : Common	Servo Encoder	Φ37mm	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	2P No. of Poles
Standard 0.3m	1:DC5V	L: Line Driver	2500ppr	A: A phase signal B: 90° phase different A、B signals output	M: Z Signal	2P: 4 poles 3P: 6 poles 4P: 8 poles

E.g : SVC37T8A-G0.3M1L-2500BM4P



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