

产品选型手册

Product selection guide



DVC48 • Series

Applications & Features



Compact, slim design, high-precision, resolutions up to 5000ppr. Straight and taper shaft are optional. Import optoelectronic components, high anti-interference ability.

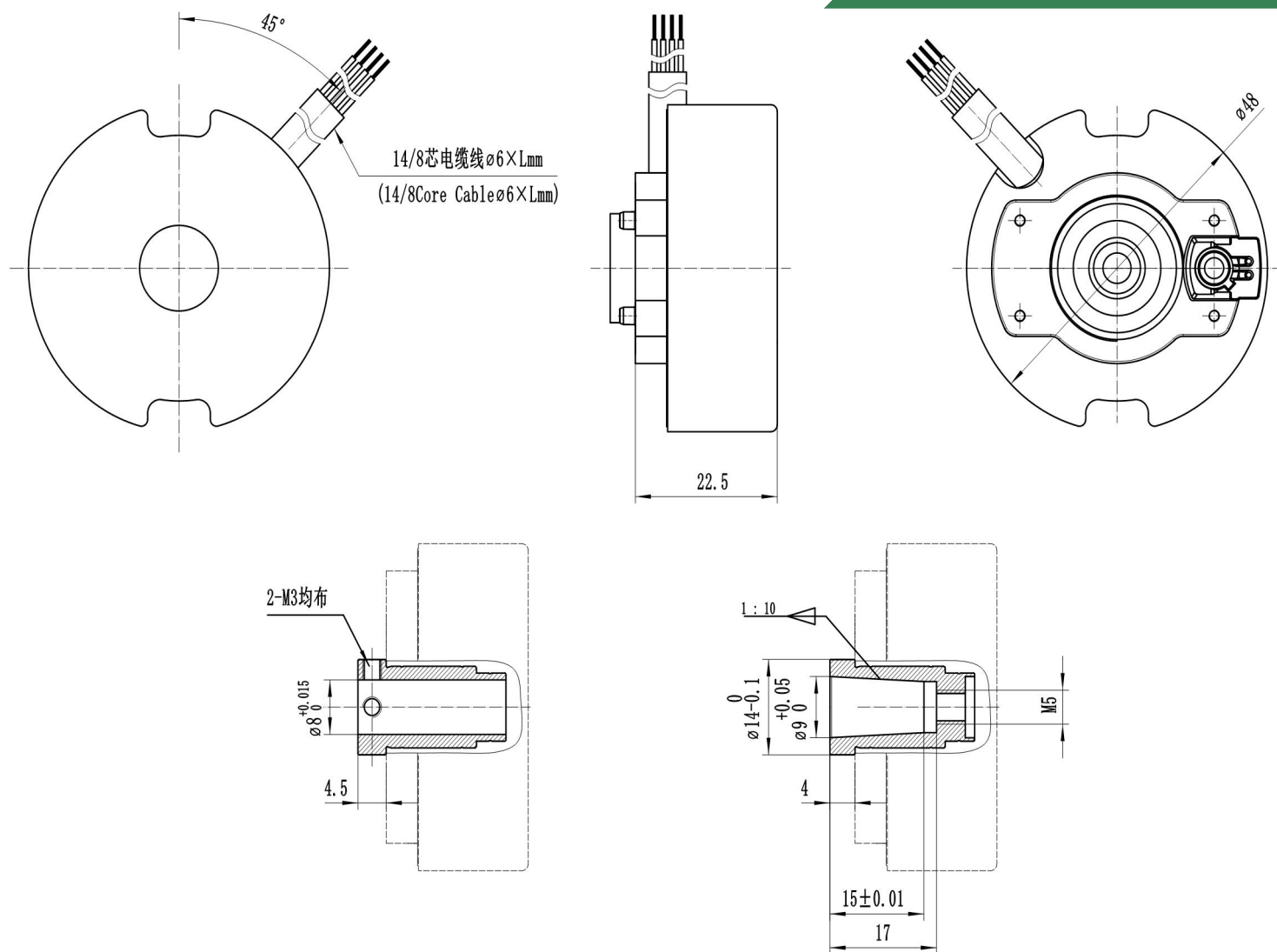
Part Number

D	VC	48	V	9	□	-	G	□	1	-	L	□	B	M	4P
Product Class	External Diameter	Shaft Diameter	Termination	Supply Voltage	Resolution	Index Signal									
D: Reinforced	Φ48mm	Φ8mm Φ9mm	G: Dustproof radial output cable	1: DC5V	1024ppr 2048ppr 2500ppr 5000ppr	M: Z signal									
Product Type	Shaft Type	Accessory	Cable Length	Output Circuit	Signal	Pole No.									
Servo	V: Taper Hollow Shaft T: Straight Hollow shaft	A. B. C1. C2. D1. D2. E. F	Standard 0.3M	L: Line Driver Output	A: A phase signal B: 90° phase different A, B signals output	4P: 8 poles									

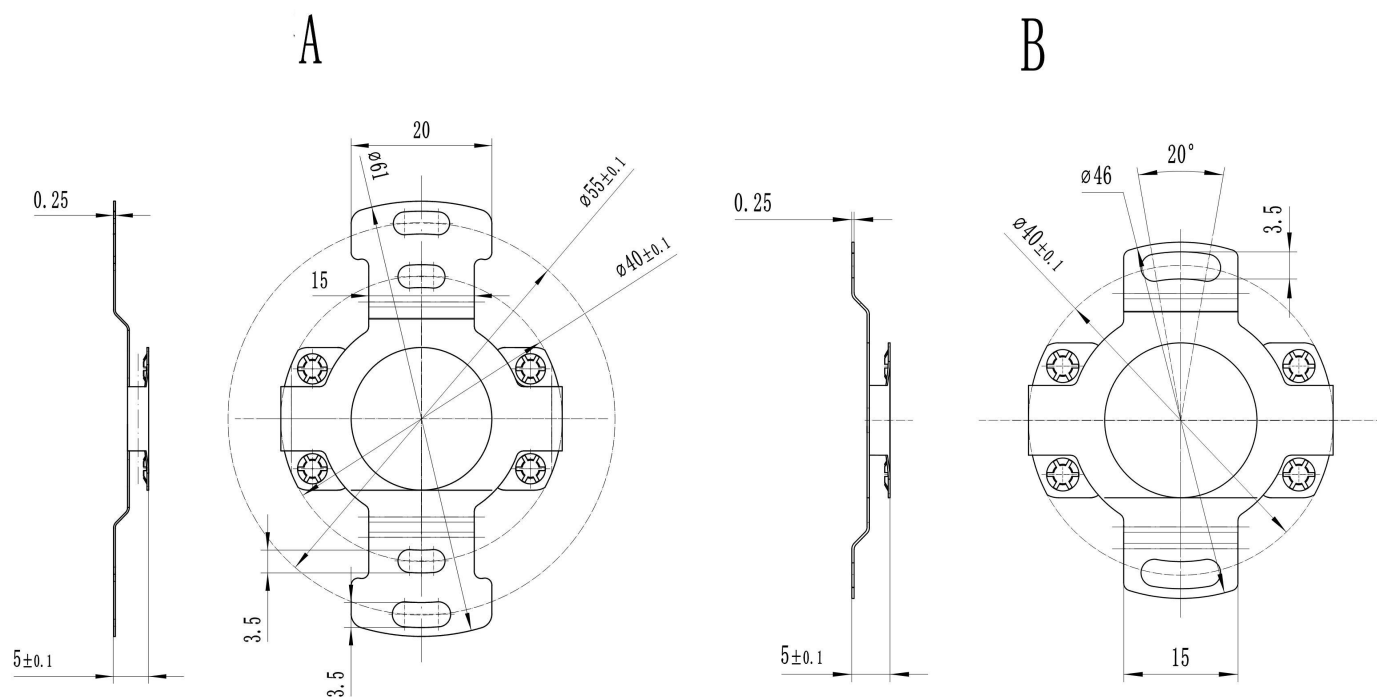
Specifications

Mechanical Specifications	Standard Type	Electrical Specifications	Standard	Less Wiring
Universal Max Rotating Speed	8000rpm	Output Mode	Square Wave (TTL) 26LS31	
Max Rotating Speed	15000rpm	Supply Voltage DV (V)	5V±5%	
Start Torque	9.8×10 N·m (100gk·cm Max)	Consumption Current (mA)	≤60mA	≤80mA
Moment of Inertia	6.5×10 kg·m ² (65g·cm ² Max)	Max Response Frequency (kHz)	300kHz	
Mounting Tolerance	Radial Play 0.05mm TIR Max	Rise time & Fall Time	100nec Max	
	Axial Play 0.2mm Max	Operating Temp. Range	-20~+85°C	
	Angular Inclination 0.1° Max	Storage Temp.	-30~+120°C	
Breaking Strength of Shaft and Bearing	≥650N	Weight	0.05kg Max	
Axial Pressure ±10N	Axial End-play Within ±0.005mm	Protection Class	IP 50	

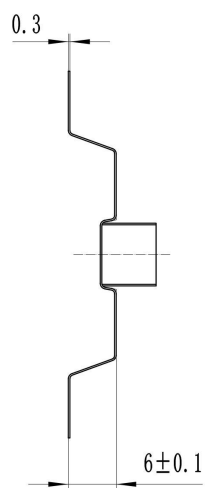
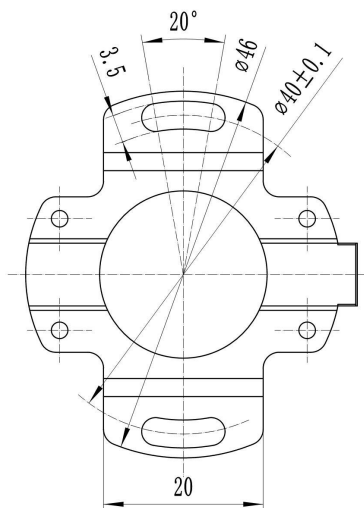
Dimensions



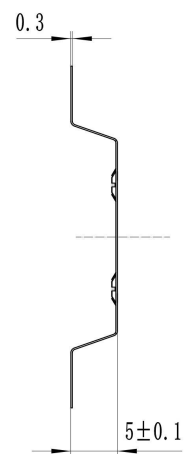
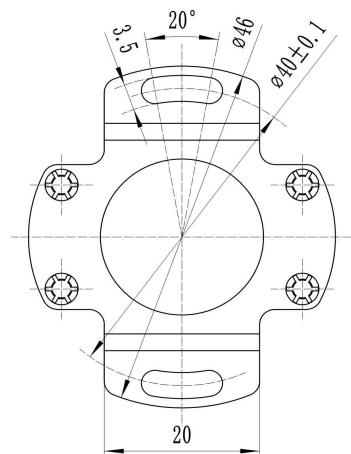
Bracket Options



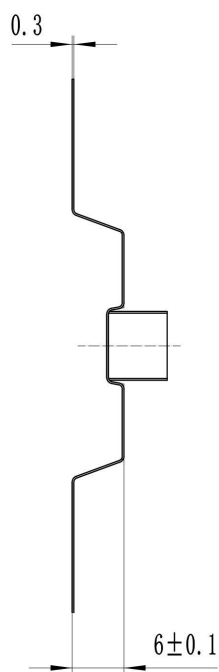
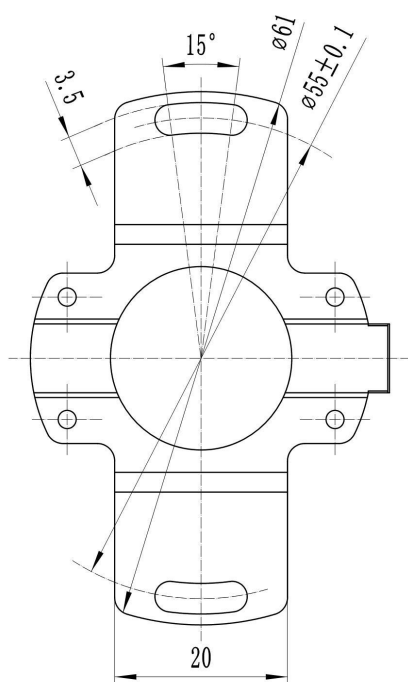
C1



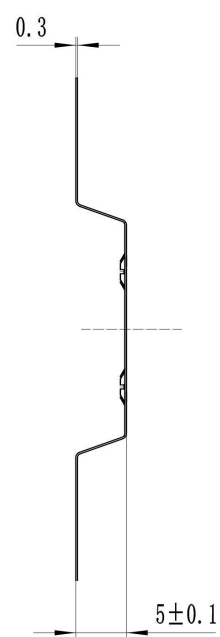
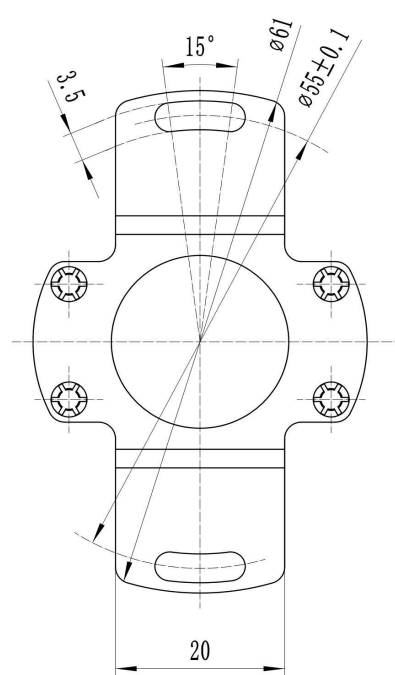
C2



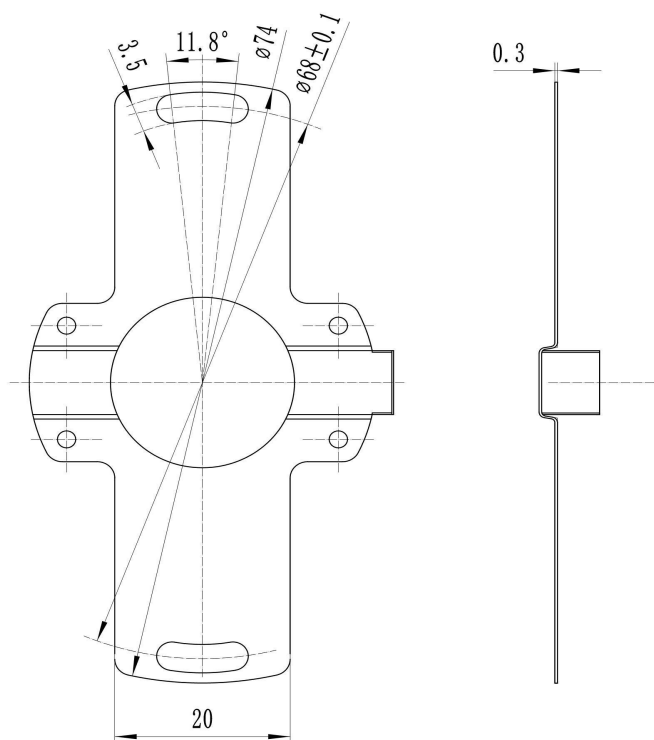
D1



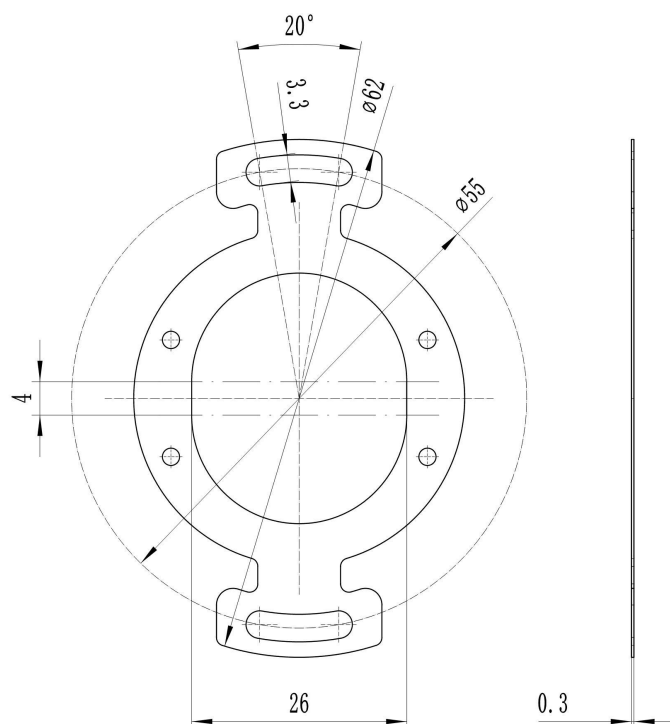
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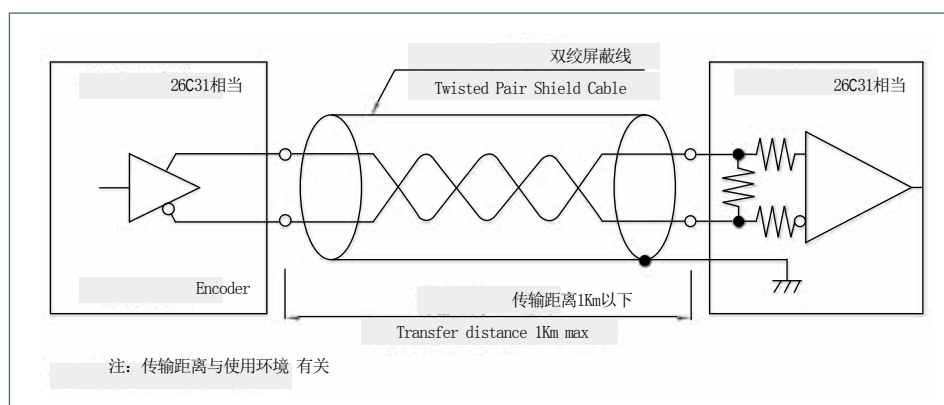
E



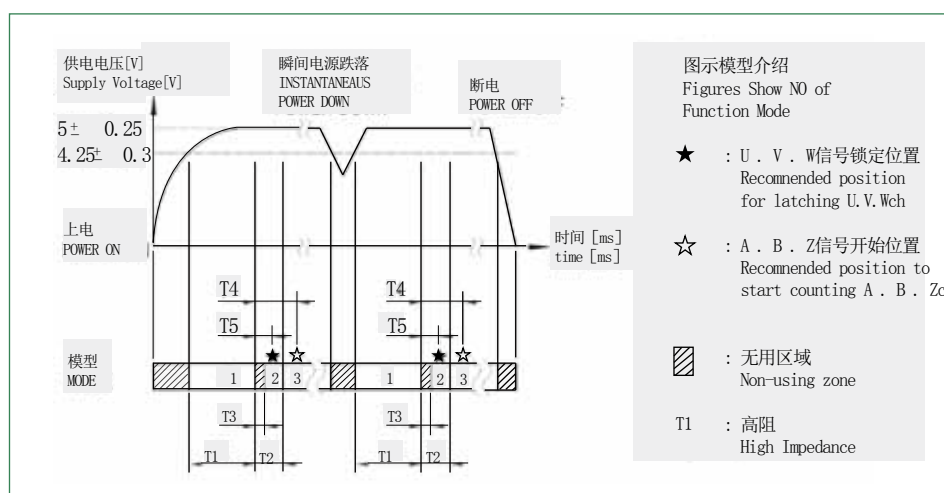
F



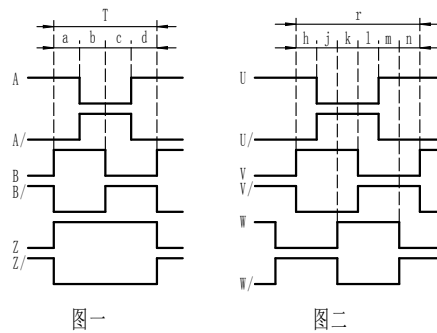
Line Driver Output



Less Wiring Type Timing Chart



Output Phase Shift



$$a, b, c, d = \frac{T}{4} \pm \frac{T}{8} \quad e = T, \frac{T}{2}, \frac{T}{4}$$

f: U相上升沿到Z向中心距 $<\pm 1^\circ$
From Uch(rise edge) to Zch
center $<\pm 1^\circ$

CCW
从安装方向看
Viewed from Mounting side

极数 Pole	h, j, k, l, m, n	r
4	$30 \pm 1.5^\circ$	180°
6	$20 \pm 1.5^\circ$	120°
8	$15 \pm 1.5^\circ$	90°

Connections

Standard type

color	RD	BK	GY	GN	YL	BN	BU	OG
signal	DC+5V	GND	A	B	Z	U	V	W

color	WH/GY	WH/GN	WH/YL	WH/BN	WH/BU	WH/OG	Shield
signal	$\bar{A}$	$\bar{B}$	$\bar{Z}$	$\bar{U}$	$\bar{V}$	$\bar{W}$	G

Less wire type

color	RD	BK	GY	GN	YL	BN	BU	OG	Shield
signal	DC+5V	GND	U/A	V/B	W/Z	$\bar{U}/\bar{A}$	$\bar{V}/\bar{B}$	$\bar{W}/\bar{Z}$	G

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