

Product selection guide



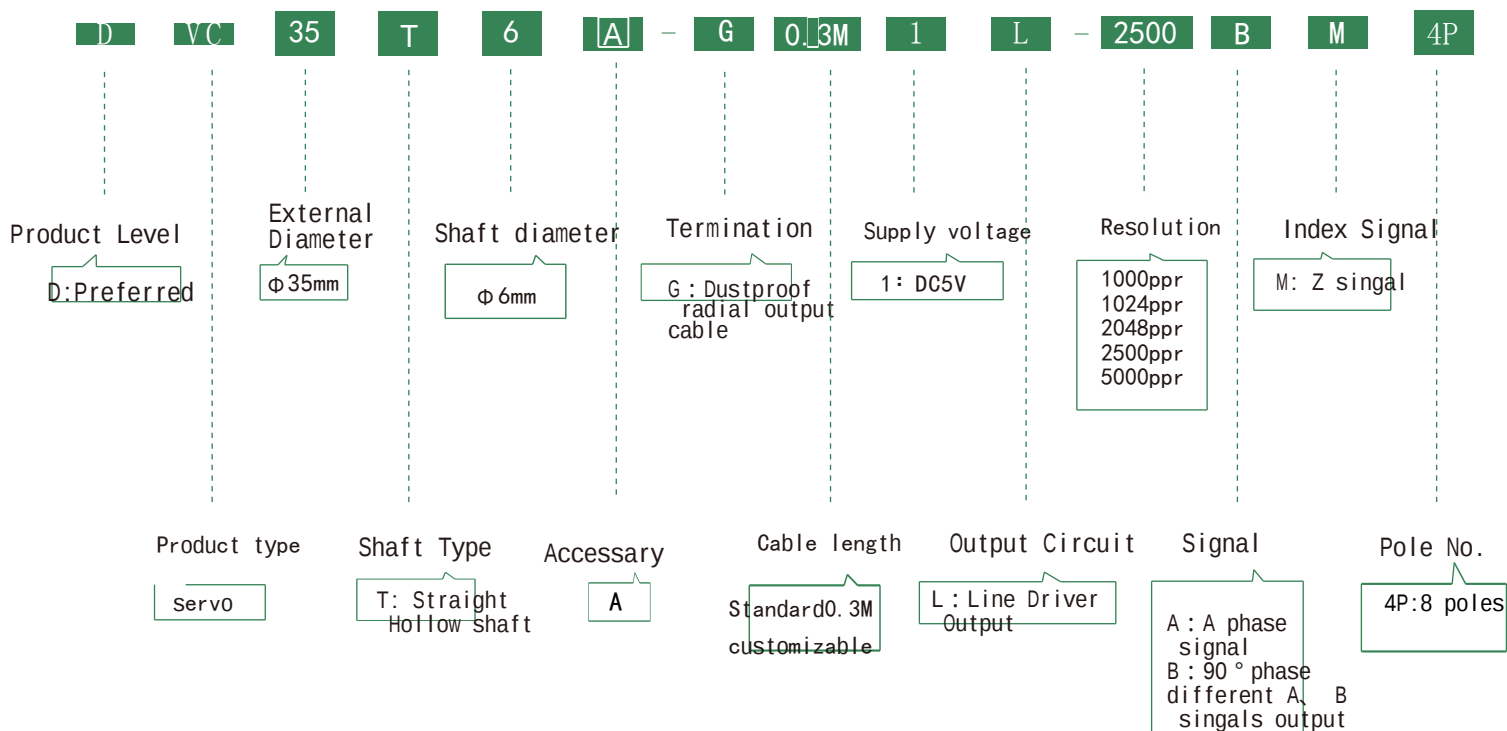
DVC35 series



用途・特点

Compact structure, ultra-thin design, high precision photoelectric components, strong anti-interference ability

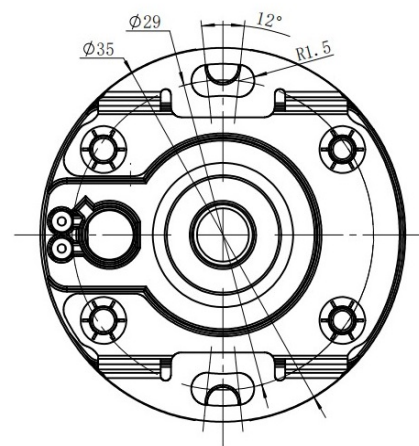
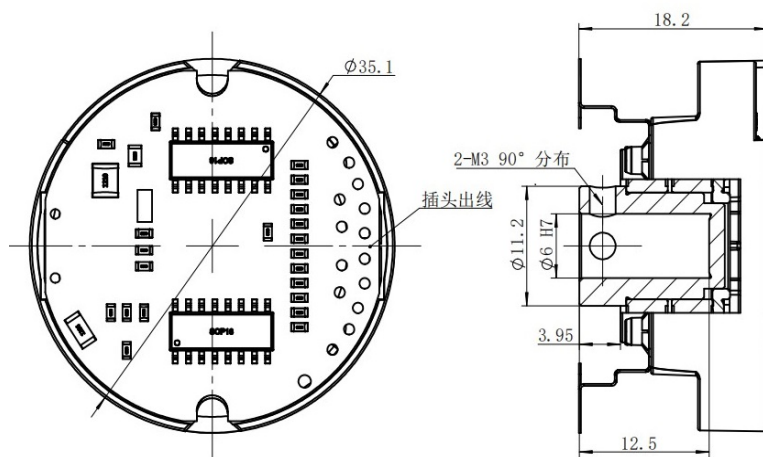
型号说明



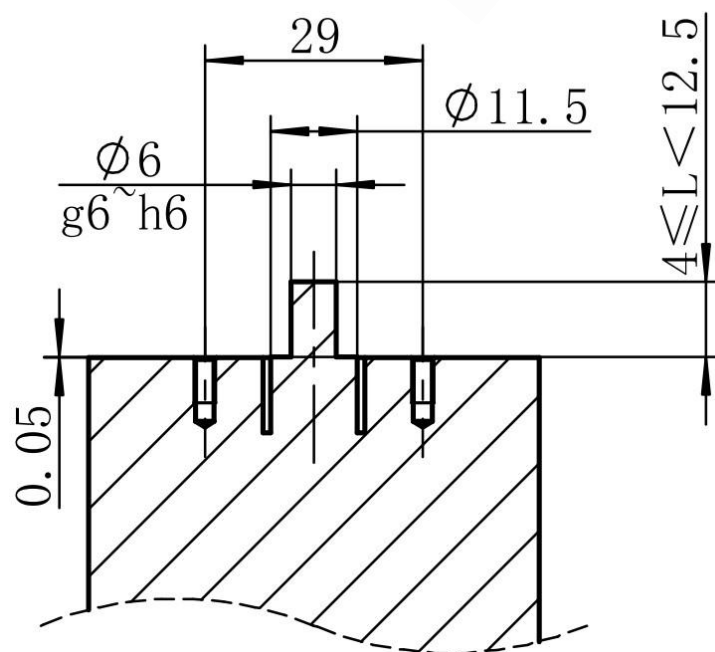
机械参数/电气特性

Universal Max Rotating Speed	8000rpm
Start torque	$9.8 \times 10\text{N} \cdot \text{m}$ (100kg $\cdot$ cm Max)
Moment of Inertia	$6.5 \times 10\text{kg} \cdot \text{m}^2$ (65g $\cdot$ cm ² Max)
Install tolerance	Radial deviation 0.05mm TIR MAX
	Axial deviation 0.02 MAX
	Angle deviation 0.1° MAX
Breaking Strength of Shaft and Bearing	$\geq 650\text{N}$
Axial Pressure $\pm 10\text{N}$	Axial End-play Within $\pm 0.005\text{mm}$

Output Mode	TTL
Supply voltage (V)	$5\text{V} \pm 0.25$
Consumption Current (mA)	$\leq 60\text{mA}$
Maximum response frequency (kHz)	300kHz
Rise time & Fall Time	$\leq 200\text{ns}$
Output voltage (V)	$V_H: \geq 2.5$
	$V_L: \leq 0.5$
Insulation resistance	$\geq 100\text{kHz}$
Weight	0.3kg MAX



Recommend motor design



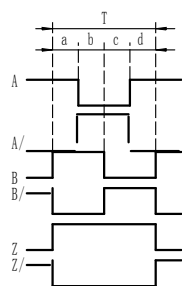


Figure 1

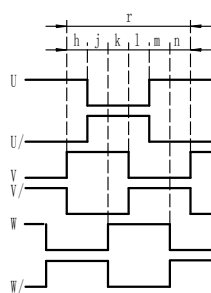


Figure 2

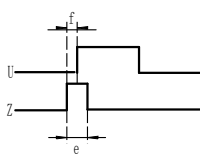


Figure 3

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

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°

normalized form

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

