



- ◆ Smaller type ,light weight ,easy equipped.
- ◆ Outer diameter $\Phi 25$, rabbet $\Phi 12$, axial diameter $\Phi 4$
- ◆ Service at the precise operating condition.
- ◆ Side entry cable.

● Connection Specifications:

Signal	A	B	Z	+V	0V	N.C	-A	-B	-Z
Cable color	Bule	White	Yellow	Red	Black	Copper net	Brown	Grey	Orange
Plug no(7cors)	3	5	2	1	4	6	-	-	-
Plug no(9cors)	5	3	2	1	4	9	7	6	8

The note :

- 1.Side entry cable: Signal cables should be connected as above color, shield wire has been connected with the encoder's shell.
- 2.Output cable's length 1 m, maxi-length 100 m.
- 3.Transmit shield cable should be connected with plug's (7 cores) No 6 or (9 cores) No9.The plug's No6 or No9 cores have been connected with the encoder's shell.
- 4.Real connection should be obeyed to encoder's mark..

● Technical Parameters

Supply voltage	DC +5V~24V	Slew speed	6000rpm
Output voltage	High voltage>85% Vcc .low voltage<0.3v	Vibration resistance	50m/s ² 10-200Hz,X,Y,Z directions 2H
Current requirements	≤120mA	Shock resistance	980m/s ² 6ms ,X,Y,Z directions twice
Response frequency	0~100KHz	Protection	IP54
Output wave forms	Square wave	Working life	MTBF≥10000h(25 ⁰ C,2000rpm)
Symmetry	0.5T ±0.1T	Operating temperature	-10 ⁰ C~70 ⁰ C
Starting torque	1.5×10 ⁻³ Nm(+25 ⁰ C)	Storage temperature	-30 ⁰ C~85 ⁰ C
Moment of inertia	3.5×10 ⁻⁶ kgm ²	Operating humidity	30~85% without frost
Max allowable load	Radial direction20N Axial direction:10N	Mass	About 0.1kg

● **Install using and points for attention :**

- The angle encoder of axle of optical belongs to the instrument of high accuracy, forbid beating and beating colliding at the time of installation, Installation or unwise use of the performance and life-span that will influence the encoder.
- The encoder unites and reinforce and prevent rigidity from linking with the outside, and should adopt the elastic shaft coupling, Nylon bring and link transmission in step by gear wheel, prevent from because user the bunches of axle move, It leads to the fact the axle department of the encoder and damage of each to beat.
- Should guarantee that the axle of the encoder and user export different axle degree of the axle $<0.20\text{mm}$, weaving the angle of two axis $<1.5^\circ$
- Pay attention to its load of axle allowing at the time of installation, can't exceed the limit load.
- Pay attention to not exceeding the rotational speed of limit, may be lost such as the telecommunications number while exceeding the rotational speed of limit, The rotational speed of limit at the time of the normal work of the encoder, $n_{\max}=(60 \times 100 \times 10^3)/L \text{ R/MIN}$ (L: Carves the line to count for the grating)
- It must be correct to wire, wrong wiring will lead to the fact that the inside circuit will be damaged.
- Please have been don't have been at encoder and power line, etc. wind output line together or the same pipeline transmits, Should not either be mixing a record of nearby of the line to use, so as not to interfere.

● **Install the size :(unit: mm)**

