PSB(JXH) ROTARY ENCODER USER'S MANUAL

Explanation of Model	PSB/JXH — □□□□ —— □ □□ □
	Model / Number of output pulses / Terminat ion / Voltage / Output Circuit
An example of model	1000P/r,DC5V Drive output, cable side out, Ex:PSB-1000-G05L or JXH-G8L1000

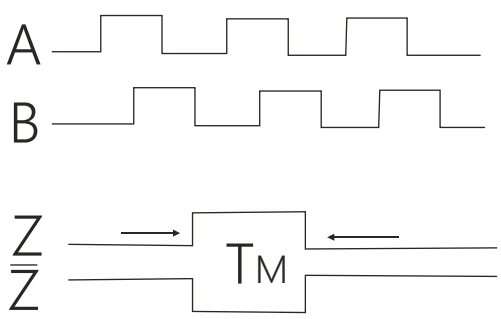
Table Specifications

Operating temperature	-10 ℃ ~ +60℃	Moment of inertia	4×10^{-7} N· mS^2
Storage temperature	-20℃ ~ +80℃	Starting torque(25 ℃)	2×10^{-3} N · m
Shock resistance	980m/S^2(3 times each in X,Y,Z dicections)	Max.speed	5000r/min
Vibration resistance	50m/S^2 (2 hrs each in X, Y,Z directions)	Allowable input angle acceleration	10000rad/S^2
Weight	0.12 kg	Max. Allowable load	Radial direction: 10N / Axial direction: 10N
Supply voltage	Dc +5V	Protection rating	Ip54
Current consumption	80mA	Output frequency	10-200KHz

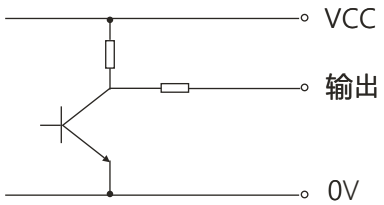
Output Waveforms and Division Accuracy

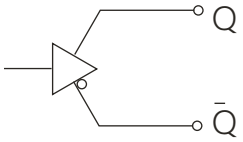
This figure shows the waveforms when a shaft is rotated clockwise(CW) viewing encoder shaft.

Symmetry	$X_1+X_2=0.5T+0.1T$ $X_2+X_3=0.5T+0.1T$
Phase shift	$Xn\geq 0.125T$ (n=1,2,3,4)
Division accuracy of signals	Accumulatie angle error ≤ 0.2T Pinch error ≤ 0.2T
T=360° /N	(N is the number of A,B channel output pulses per revolution)
Signal width of Z channel	$T_M=1T\pm0.5T$
Positional relationship of A & B channels and Z channels is not specified.	



Output Ciruit





AM26LS31

Specifications of Connection

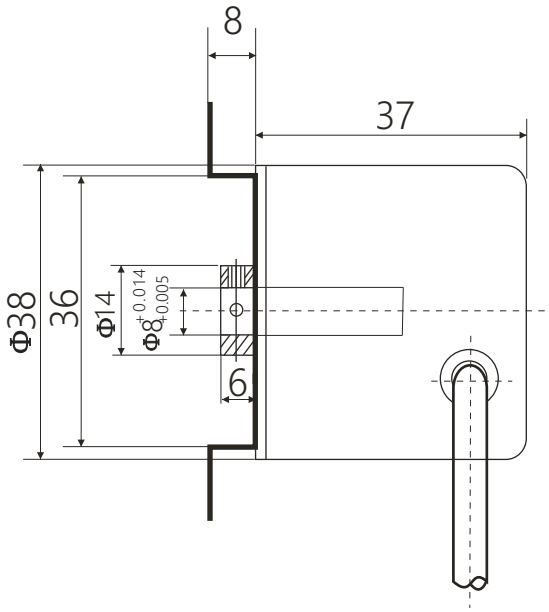
1.

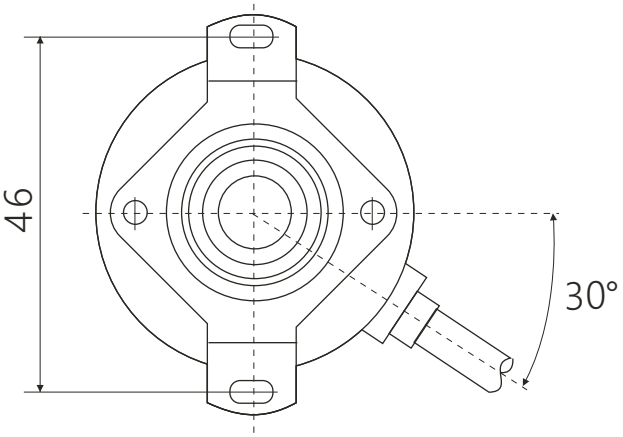
Subscript	1	2	3	4	5	6
Signal	A	$\bar{Z}$	Z	+5V	OV	B
line color	Blue	Orange	Yellow	Red	White	Green

2.

Subscript	1	2	3	4	5
Signal	A	B	Z	+5V	OV
line color	Black	Green	Yellow	Red	White

External View





Instructions for installation

This is delicate measuring instrument.Dropping,rough handing or excessive axial and radial forces on the shaft can cause permanent damage to the encoder.

Whenan encoder is applied to the system,the assembling accuracy should be guaranteed:declination of center should be less than 0.2mm;declination to angle should be less than 0.2° .

There should be space between the encoder and the motor shaft.Do not attempt to assemble by hammering.

Quality assurance

If the encoder does not function properly within one year of the delivering date due to its poor quality ,it will be repaired or replaced by the producer for free only when customer has strictly followed the regulations for maintenance and operation.