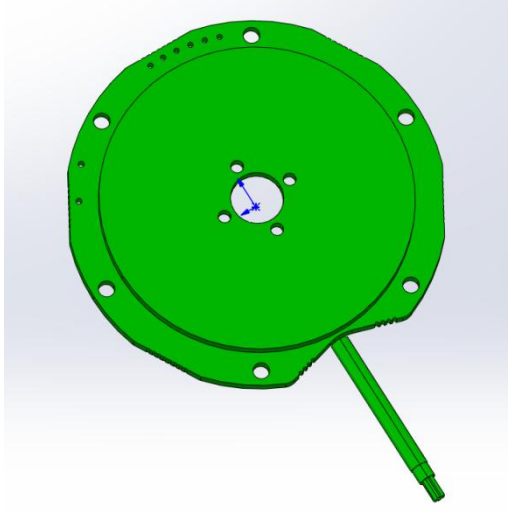
NEIHJS18M165007B Absolute Type Inductive Encoder



Features

- Large hollow shaft
- Split-type structure
- High precision, absolute accuracy ±90"
- Supports a maximum speed of 6,000 rpm

Typical Application

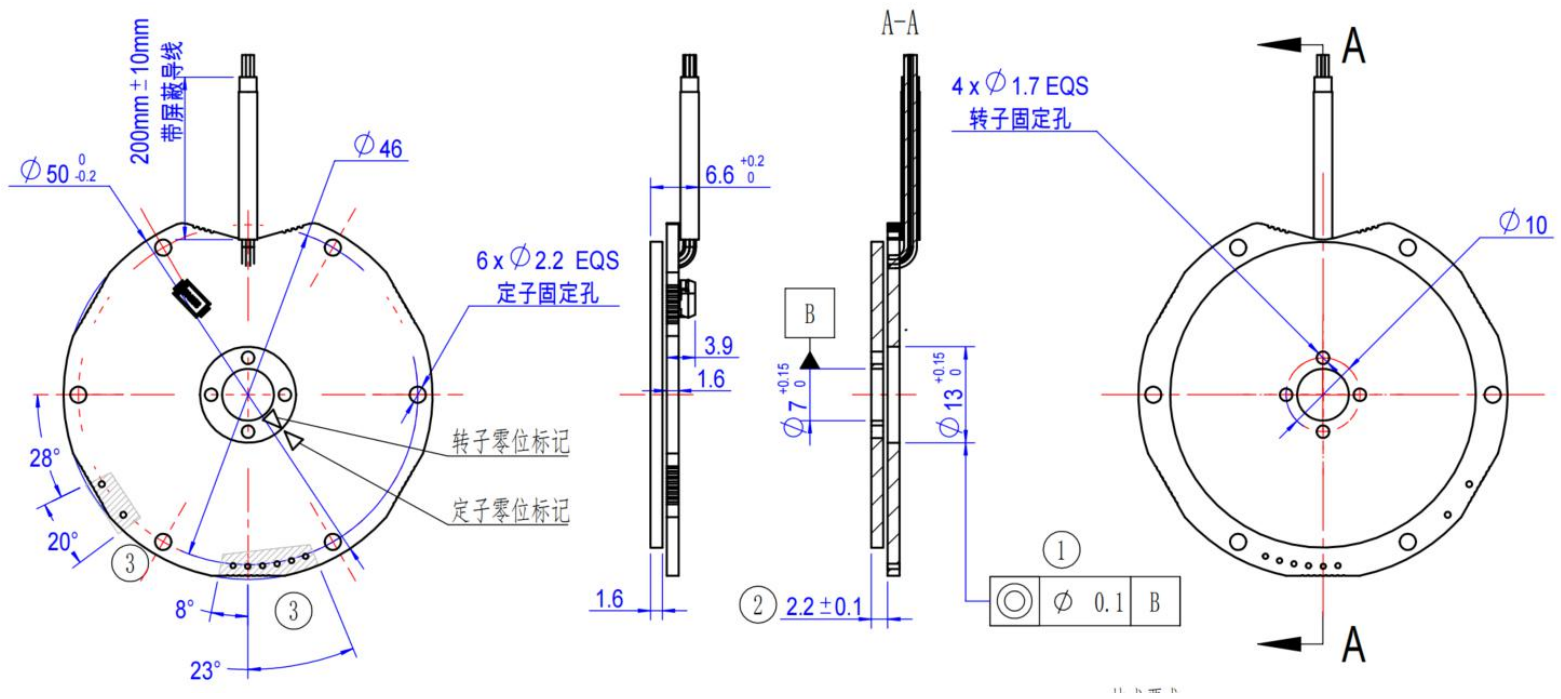
- Radar Rotating Stage
- Precision Automation Equipment

Absolute rating

Electrical Parameters Electrical Characteristics				
System Precision	±90"		external diameter thickness	50mm 12mm
resolution ratio	18 digits		aperture	7mm
Allowable electrical speed	6000rpm		Allowable radial runout of the tested shaft	±0.15mm
clock frequency computation time	⩾3 MHz ⩽8 μs		Allowable axial displacement of the tested shaft	±0.15mm
Electrical Connection	Twisted-pair cable straight-out		natural frequency	⩾150 Hz
signal interface	SSI/BISS-C/RS422		working temperature	-55 °C to 85 °C
service voltage	DC 5V-24V		weight	≈10g
Current Consumption (Typical Value)	5V：⩽ 150 mA			

Dimensions (in mm)

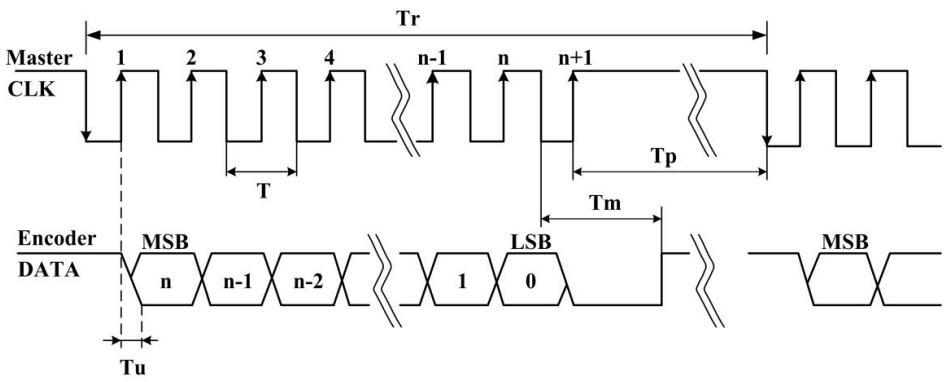
Outline Dimension



Line Sequence Definition: SSI

C01	Vcc	Power Supply: On	5V Power Supply	red
C02	Gnd	Power Supply	earth wire	black
C03	CLK+	clock +	CLK+	Huang
C04	CLK -	clock -	CLK -	Green
C05	DAT +	data +	DAT+	Lan
C06	DAT -	data -	DAT -	white

Time Definition



variable	description	span	Recommended Value
n	Total Number of Data Bits	18	18
T	clock cycle	500ns≤T≤2.5us	500ns
Tu	Bit Update Time	≤90ns	/
Tp	dead time	≥25us	/
Tm	Single-stable time	≥25us	/
Tr	Time between two adjacent requests	≥35us	35us

Comments:

- **Items with “*” in this datasheet are recommended value for reference only. The final value must be determined by customer.**
- **CRRC reserves the right to carry out modifications on its transducers, in order to improve them.**
- **Product updates will not notified separately.The final version of the datasheet shall be confirmed through specific communication between both parties.**