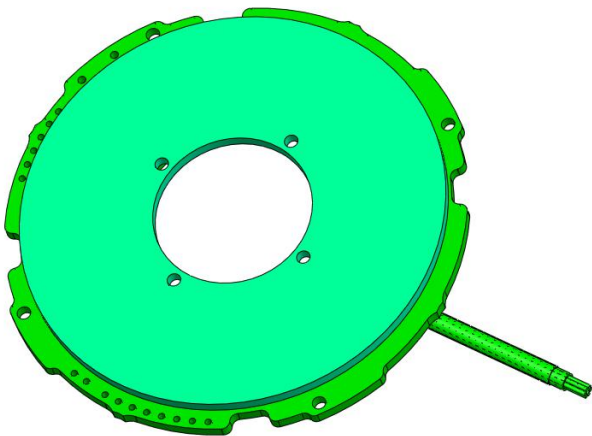


NEIHJS18M166020B Absolute Type Inductive Encoder

Features

- Large hollow shaft
- Split-type structure
- High precision, absolute accuracy $\pm 90''$
- Supports a maximum speed of 6,000 rpm



Typical Application

- Radar Rotating Stage
- Precision Automation Equipment

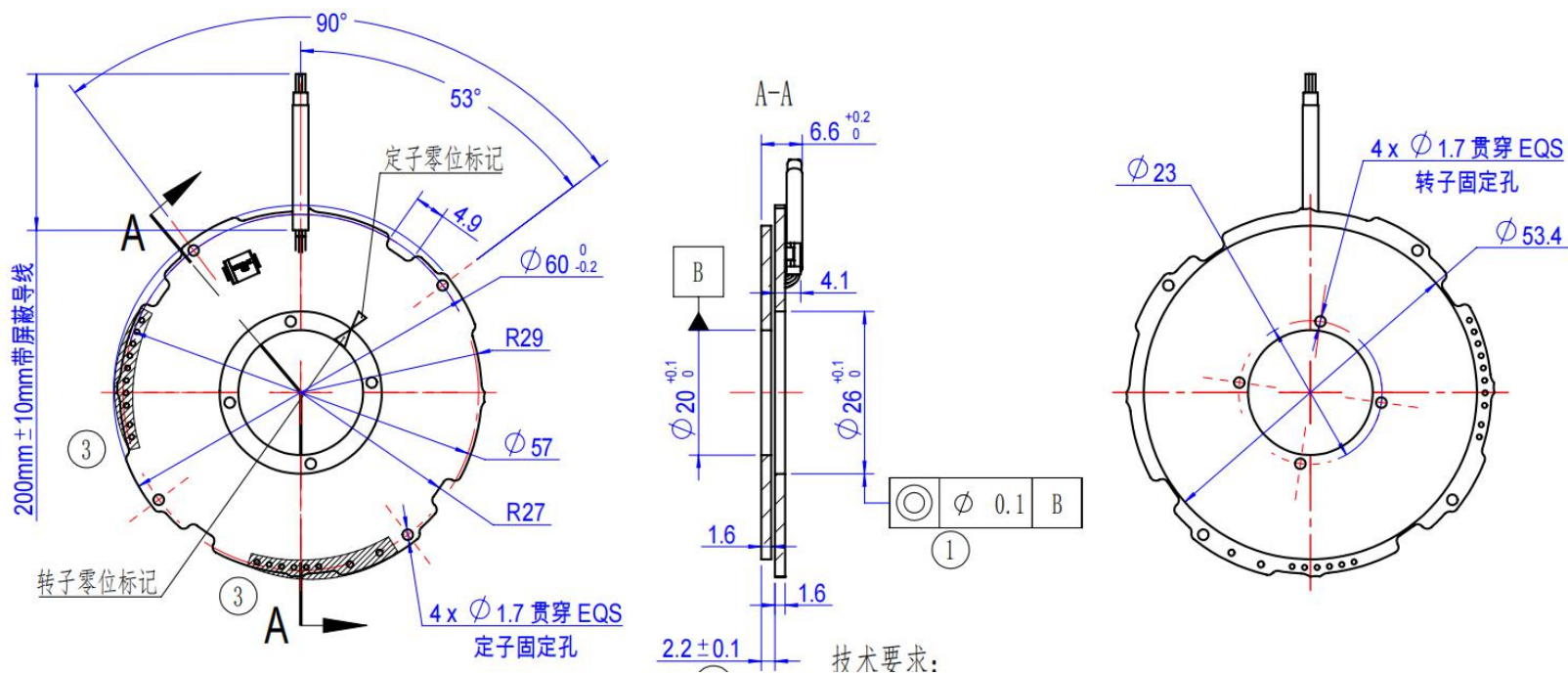
Absolute rating

Electrical Parameters Electrical Characteristics

System Precision	$\pm 90''$		external diameter	60mm
			thickness	12mm
resolution ratio	19 people		aperture	20mm
Allowable electrical speed	6000rpm		Allowable radial runout of the tested shaft	$\pm 0.05\text{mm}$
clock frequency	$\leq 3\text{ MHz}$		Allowable axial displacement of the tested shaft	$\pm 0.05\text{mm}$
computation time	$\leq 8\text{ }\mu\text{s}$			
Electrical Connection	Twisted-pair cable straight-out		natural frequency	$\geq 150\text{ Hz}$
signal interface	SSI/BISS-C/RS422		working temperature	-55 °C to 85 °C
service voltage	DC 5V-24V		weight	$\approx 10\text{g}$
Current Consumption (Typical Value)	5V: $\leq 340\text{ mA}$			

Dimensions (in mm)

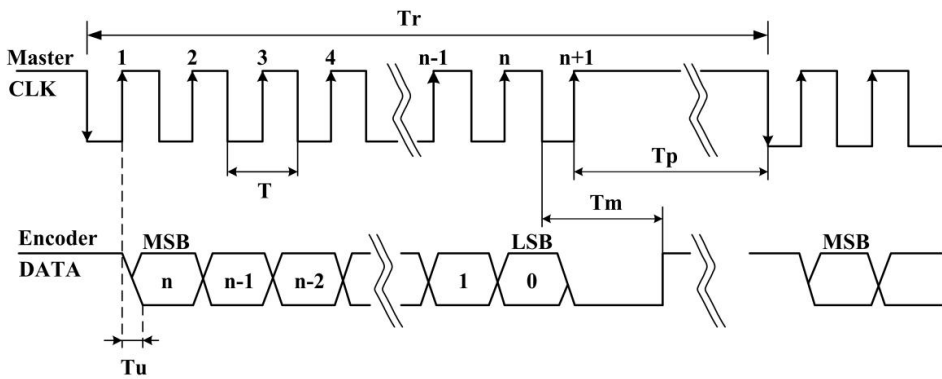
Outline Dimension



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	$500\text{ns} \leq T \leq 2.5\mu\text{s}$	500ns
Tu	Bit Update Time	$\leq 90\text{ns}$	/
Tp	dead time	$\geq 25\mu\text{s}$	/
Tm	Single-stable time	$\geq 25\mu\text{s}$	/
Tr	Time between two adjacent requests	$\geq 35\mu\text{s}$	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.