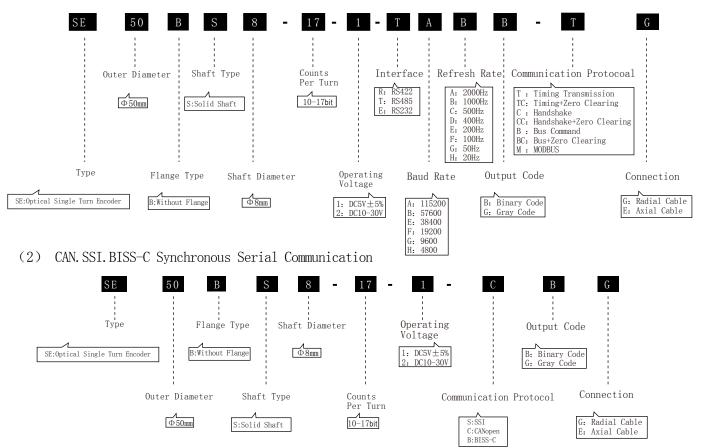


4. Wide temperature range, suitable for all kinds of environments.

### 1.1 Part Number Defined

### (1) Asynchronous Serial Communication



### 1.2 Notes

- 1. Please follow the instructions to use flexible connections for mounting to ensure the accuracy and service life of products.
- 2. Encoders are precise instruments adjusted strictly before leaving factory. Strong impact, dismantlement and changes on encoders are not allowed.
- 3. To guarantee the accuracy and work of encoder, when the operating voltage is DC5V  $\pm$  5%:
- (1) Cable length should not exceed 2 meters.
- (2) The current of the power supply should not be less than 0.5A.
- (3) The interference signal of the power supply should be within  $\pm$  50mV.
- When operating voltage is 10-30V:
- (1) The current of the power supply should not be less than 0.3A.
- (2) The interference signal of the power supply should be within  $\pm$  50mV.
- 4. The corresponding supply voltage and connections to the equipment should be paid attention by the profesional installation people.
- 5. Please read the instructions carefully before using the product.

### 2.1 Basic Specifications

Resolution in Bit		1	10~17bit		Measuring Range		$0\sim360^\circ$ (Single-turn)					
Resolution in Bit	10 bit	11 bit	12 bit	13 bit	14 bit	15 bit	16 bit	17bit				
Angular Resolution			320"	160″	80"	40"	20"	10"				
Accuracy≤			±640"	±320"	±160"	±80"	±40"	±20"				

# 2.2 Environment Specifications

Working Temperature	-40°C∼+65°C	Protection Class	IP64
Storage Temperature	-50°C∼+70°C		

# 2.3 Mechanical Specifications

Outer Diameter	50 mm	Shaft Diameter	8mm
Height	57.5 mm	Shaft Length	15 mm
Weight	280 g	Max Speed	2000 r/min
Vibration	5 g	Radial Shaft Load	≤30N
Shock	20 g	Axial Shaft Load	≤20N

# 2.4 Electrical Specifications

# (1) Asynchronous Serial Communication

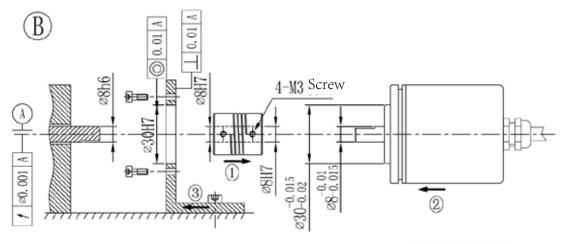
Supply Voltage	DC5V, 10~30V
Interface	RS485、RS422、RS232、CAN
Communication Protocol	MODBUS、CANopen、Timing Transmission、Timing Transmission+Zero Clearing、Handshake、 Handshake+Zero Clearing、Bus Command、Bus+Zero Clearing
Baud Rate(b/s)	115200、57600、38400、19200、9600、4800、2400
Refresh Rate	2000Hz、1000Hz、500 Hz、400 Hz、200 Hz、100 Hz、50 Hz、20 Hz
Output Code	Binary Code, Gray Code

# (2) Synchronous Serial Communication

Supply Voltage	DC5V, $10\sim30V$
Communication Protocol	SSI、BISS-C
Output Code	Binary Code, Gray Code

# 2.5 Installation Instruction

# Unit:mm Tolerance:GB/T 1801-2009 IS01829-1975 Cable Bend Radius R10 4 2



Inner Hexagon Screw

- a. Encoder Outline Diagram
- b. Dimensions and tolerance for customer mounting
- c. Installation Complete Diagram



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