



Product Selection Guide

SE42BS6

Applications & Features

Appearance:

1. Color of housing: Black, Silver, Green, Army Green (optional) .
2. Surface treatment: Dark, sandblasting oxidation (optional) .
3. Connection: Radial cable, axial cable (optional) .
4. Cable length: 1m (optional) .
5. Cable color: Black, gray (optional) .

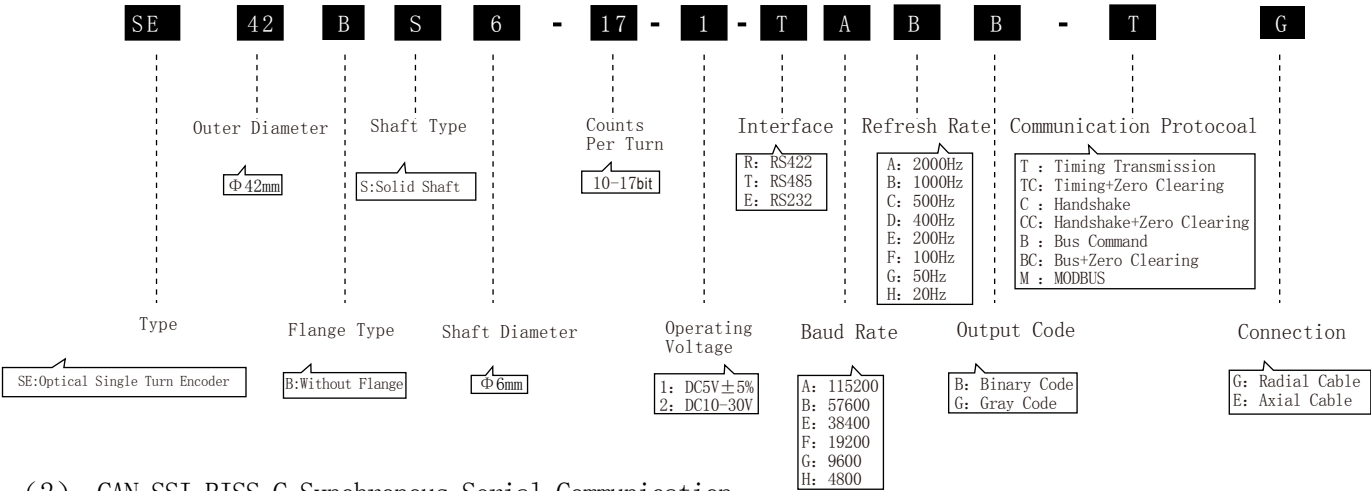
Features:

1. The 42mm encoder is universal economical encoder widely used in the industrial automation control .
2. Economical type. short lead time.
3. Multiple communication protocols optional.
4. Durable, long life, high anti-jamming capability.

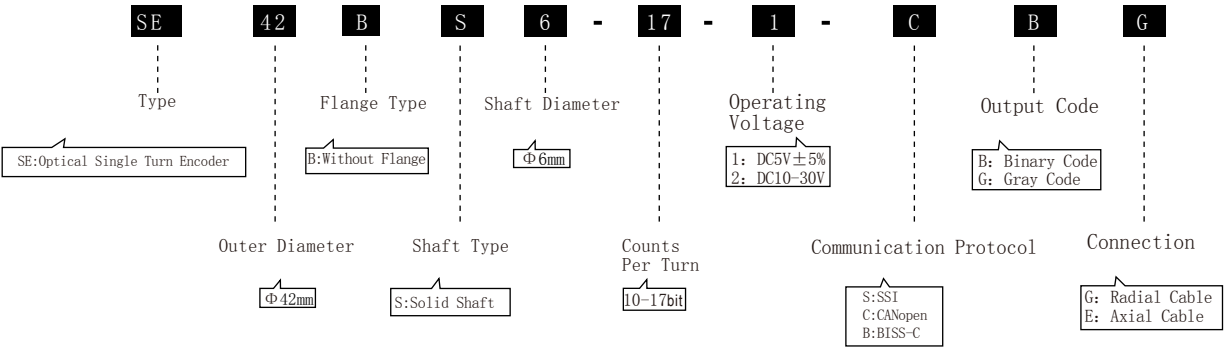


1.1 Part Number Defined

(1) Asynchronous Serial Communication



(2) CAN.SSI.BISS-C Synchronous 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		10~17bit				Measuring Range		0 ~ 360° (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 $\leq$			$\pm 640''$	$\pm 320''$	$\pm 160''$	$\pm 80''$	$\pm 40''$	$\pm 20''$				

2.2 Environment Specifications

Working Temperature	-40℃～+65℃	Protection Class	IP64
Storage Temperature	-50℃～+70℃		

2.3 Mechanical Specifications

Outer Diameter	42 mm	Shaft Diameter	6 mm
Height	50 mm	Shaft Length	15 mm
Weight	130 g	Max Speed	2000 r/min
Vibration	5 g	Radial Shaft Load	≤25N
Shock	20 g	Axial Shaft Load	≤20N

2.4 Electrical Specifications

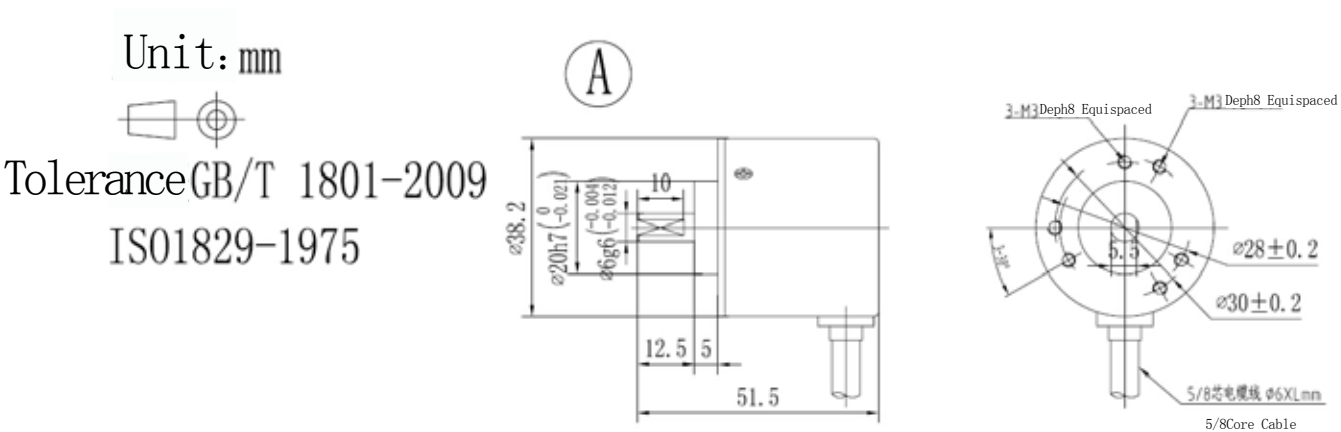
(1) Asynchronous Serial Communication

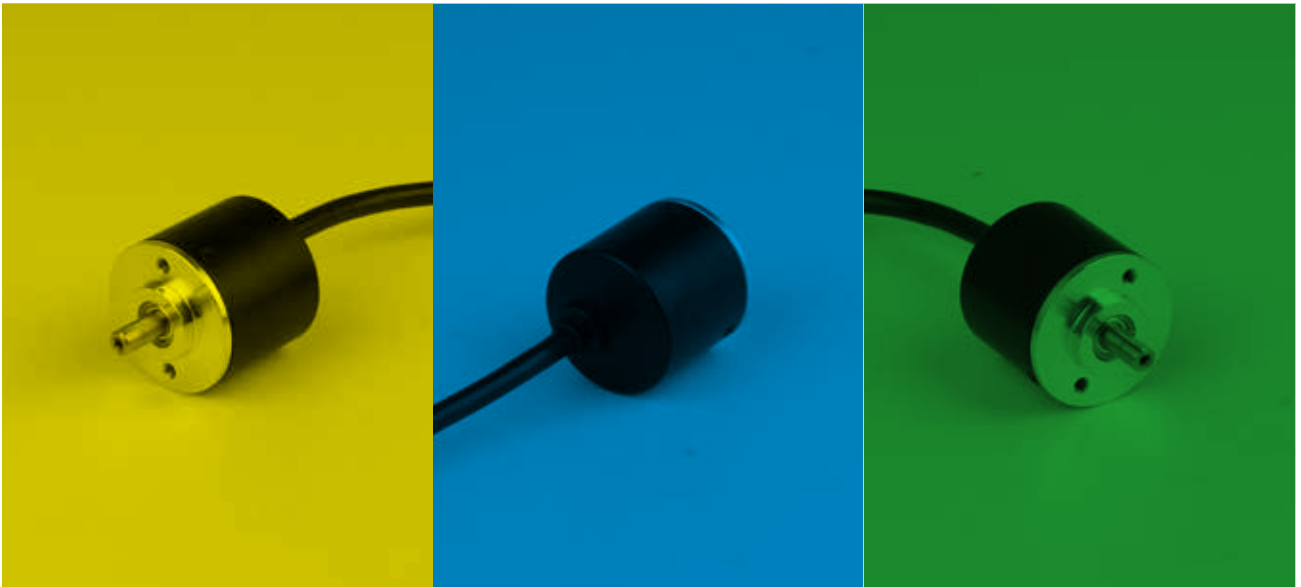
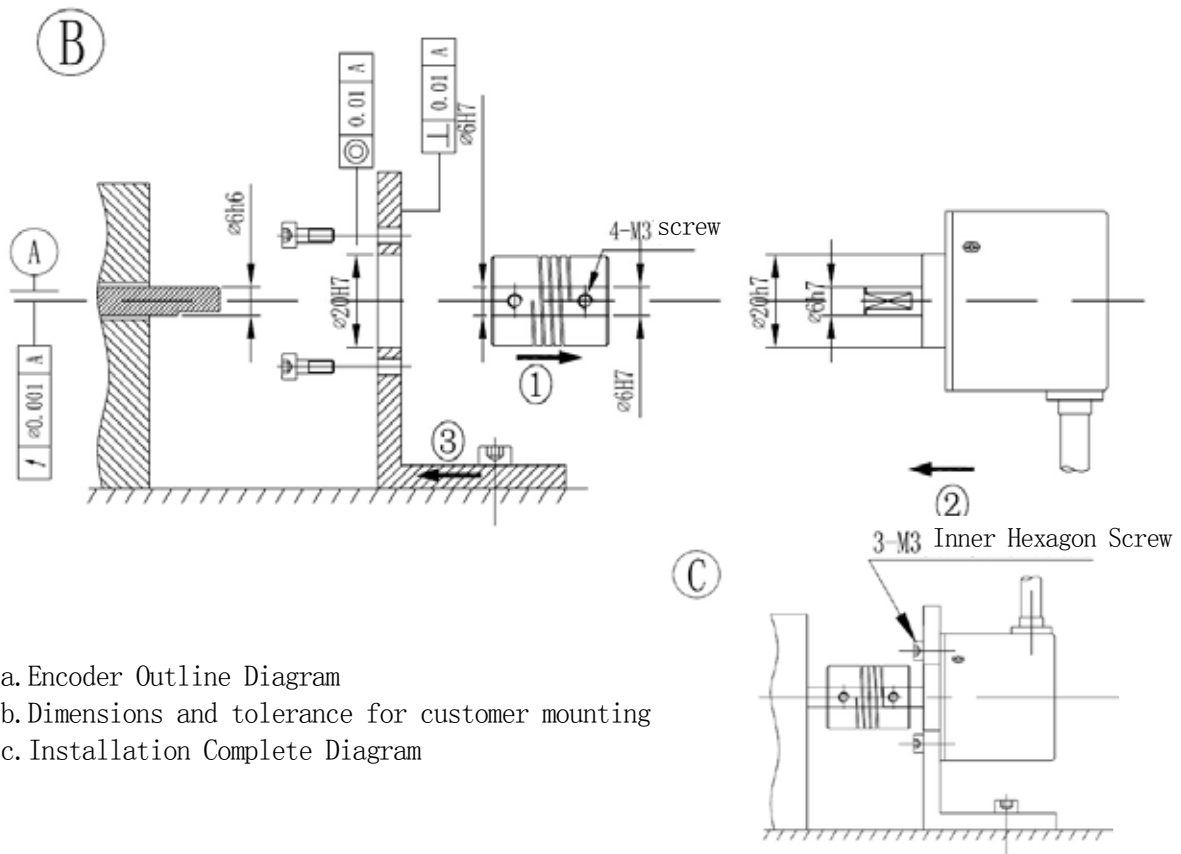
Supply Voltage	DC5V, 10～30V
Interface	RS485、RS422、RS232、CAN
Communication Protocol	MODBUS、CANopen、Timing Transmission、Timing Transmission+Zero Clearing、Handshake、Handshake+Zero Clearing、Bus Command、Bus+Zero Clearing
Baud Rate(b/s)	115200、57600、38400、19200、9600、4800、2400
Refresh Rate	2000Hz、1000Hz、500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

(2) Synchronous Serial Communication

Supply Voltage	DC5V, 10～30V
Communication Protocol	SSI、BISS-C
Output Code	Binary Code, Gray Code

2.5 Installation Instruction





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