

High Resolution Absolute Single Turn BiSS-C Protocol Encoder



Description:

High resolution absolute single turn BiSS-C protocol EAC50 series encoder have good performance on anti-mechanical damage and can withstand high axial and radial load. The series products adopt unique mechanical design to bear mechanical load generated by high speed motor. The encoders adopt advanced signal processing technology to realize precise signal output under the speed of 10000rpm. Meanwhile, thanks to high-precision optical sensing technology, the resolution can be up to 18bits.

Features:

- Hollow shaft for high-speed running
- Running speed up to 10000rmp
- Reverse connection and shor circuit protection
- Metal cast housing resisting to heavy shock
- IP65 protection class, widely used on field
- Compact design to save installation space

Mechanical Characteristics

Hollow shaft diameter (mm)	Ф13.41:10 taper (Optional)
Protection acc. to EN 60529	IP65
Speed (r/m)	10000
Max. load capacity of the shaft	
Axial load capacity	40N
Radial load capacity	80N
Shock resistance	50G/11ms
Vibration resistance	10G 10~2000Hz
Rotor moment of inertia	6×10 ⁻⁶ kgm ²
Starting torque	<0.03Nm
Body material	AL-alloy
Housing material	Zine-alloy
Operating temperature	-20 °C +80 °C
Storage temperature	-25℃+85℃
Weight	approx. 400g

Electrical Characteristics

Signal type	Absolute	Absolute
Output type	BiSS-C	BiSS-C
Output and driver	RS422	RS422
Resolution	Single ture 18bit	Single ture 18bit
Supply voltage (Vdc)	5V	10~30V
Power consumption (no load)	≤200mA	≤200mA
Permissible load	±20mA	±20mA
BiSS clock frequency	Max.10MHz	Max.10MHz
Update rate of code value	≤10µs,depends on resolution	≤10µs,depends on resolution
Signal level high	Typical 3.8V	Typical 3.8V
Signal level low	Max. 0.5V	Max. 0.5V
Rise timeTr	Max. 100ns	Max. 100ns
Fall timeTf	Max. 100ns	Max. 100ns

Note: bi-directional Biss-C; programmable parameter: resolution, code system, zero setting

Terminal Assignment

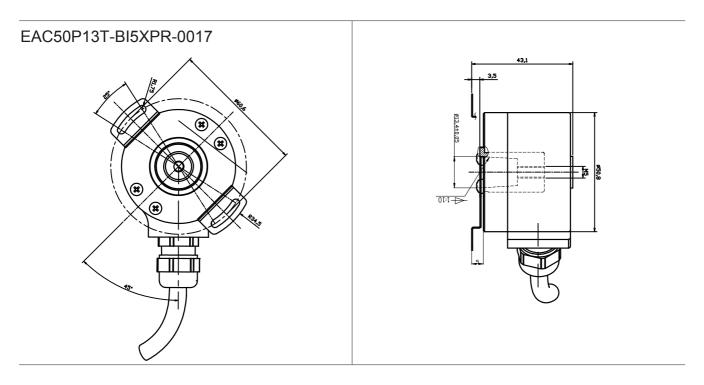
BiSS-C Synchronous Serial Port Wring

Signal	0V	+U _b	+C	-C	+D	-D	ST*	V/R*	Shield
Color	WH	BN	GN	YL	GY	PK	BU	RD	÷



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Dimension (mm)



Order Code:

