

INTEGRATED ROTARY SOLUTION

CSEE056-1006-AE01

슬립링 + Encoder 통합형

POWER · SIGNAL · ABSOLUTE POSITION FEEDBACK

PRODUCT OVERVIEW

외경 56mm크기의 슬립링에 Encoder를 조합하여 회전체에 전기적인 전원 및 시그널 공급뿐 아니라 회전각도의 센싱이 가능한 모델입니다.

슬립링과 Encoder를 통합함으로써 설치공간을 절감하고 부품간의 조립 편의성을 크게 향상시킨 제품으로 ROBOT 및 자동화장비, 특장차등의 다양한 어플리케이션에 적용 가능한 모델입니다.



PRODUCT IMAGE

KEY SPECIFICATIONS

Ø56 mm

OUTER DIAMETER

10 A × 6 CH

CURRENT RATING

17bit

ABSOLUTE RESOLUTION

BiSS-C

ENCODER OUTPUT

DESIGN HIGHLIGHTS

01

LOW TORQUE

Reference torque: 0.05 N·m

02

10 A × 6 CIRCUITS

6 circuits for power and signal

03

ABSOLUTE ENCODER

17-bit resolution · BiSS-C output

04

EASY INSTALLATION

Integrated and compact structure

MAIN APPLICATIONS

- 회전형 턴테이블
- 다관절 로봇
- 자동화 및 연구 장비
- 특장차

Custom configuration and application support available.

PERFORMANCE DATA

SLIP RING	
Number of circuits	6
Current rating	10 A / circuit
Voltage	440 VAC/VDC
Electrical noise	< 0.01 Ω
Insulation resistance	≥ 1,000 MΩ / 500 VDC
Dielectric strength	800 VAC @ 50 Hz, 60 s
Rotating speed	250 rpm (Max.)
Contact material	Precious metal
Lead wire length	250 mm each (customizable)
Lead wire type	17 AWG, Tefron wire
Operating temp.	-25°C to +80°C
Working life	20 million revolutions
Torque	0.05 N·m (+0.02 N·m / 6 circuits)
Housing material	Aluminum alloy

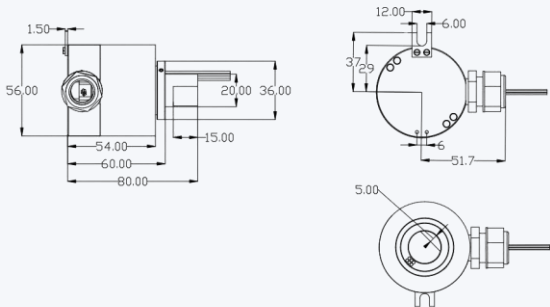
ENCODER	
Type	Absolute
Sensor type	High Accuracy Magnetic Encoder
Resolution	17 bit
Output	BiSS-C
Power	5 V (Supply: 5.0 V ±10%)
Lead wire	28 AWG / 250 mm
Accuracy	± 0.2°
Shaft material	S45C

WIRING / LEAD COLOR

SLIP RING		
No.	Color	Code
1	Black	BLK
2	Brown	BRN
3	Red	RED
4	Orange	ORG
5	Yellow	YEL
6	Green	GRN

ENCODER			
No.	Color	Signal	Function
1	Red	SLO+	Master data input (+)
2	Green	SLO-	Master data input (-)
3	Blue	MA-	Clock output (-)
4	Yellow	MA+	Clock output (+)
5	Gray	GND	Ground
6	Orange	VCC	Supply voltage 5 V

CONFIGURATION OUTLINE



ENGINEERING NOTES

- 01Check shaft alignment and cable interference before installation.
- 02Lead length and circuit configuration can be customized for the application.
- 03Confirm all dimensions and interfaces against the latest approved drawing.
- 04Specifications are subject to change for product improvement.