

Servo Motor Encoder Slip Ring

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Slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. It is the best solution for servo motor which need to transfer encoder signal in rotating system.

Optional for flange or through hole installation, designed for the servo motor/encoder of automatic control systems.



Features:

- Special servo slip ring designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance.
- Can combine with power / Signal
- Gold plated ring and Gold alloy brush
- Inner wiring and shield structure can totally prevent the mistake of encoder error.

SEM SERIES MODEL#

Model#	ID(mm)	OD(mm)	Servo Motor Number	Power / Signal
SEM00	–	86	1~4	2~48
SEM25	25.4	99	1~4	2~72
SEM50	50	119	1~4	2~72

SEM00 Series Overview

Description

SEM00 series slip ring is for flange installation, designed for the servo motor/encoder of automatic control systems, advanced design can avoid interference during encoder signal transmission.

Designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance, it also can combine with power / signal, high speed data transmission.



Specifications

Item	
Operating Speed	Max.500 RPM*
Number of Circuits	2~48 wires
Lead Wire	Encoder cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40°C to 80°C
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

Options

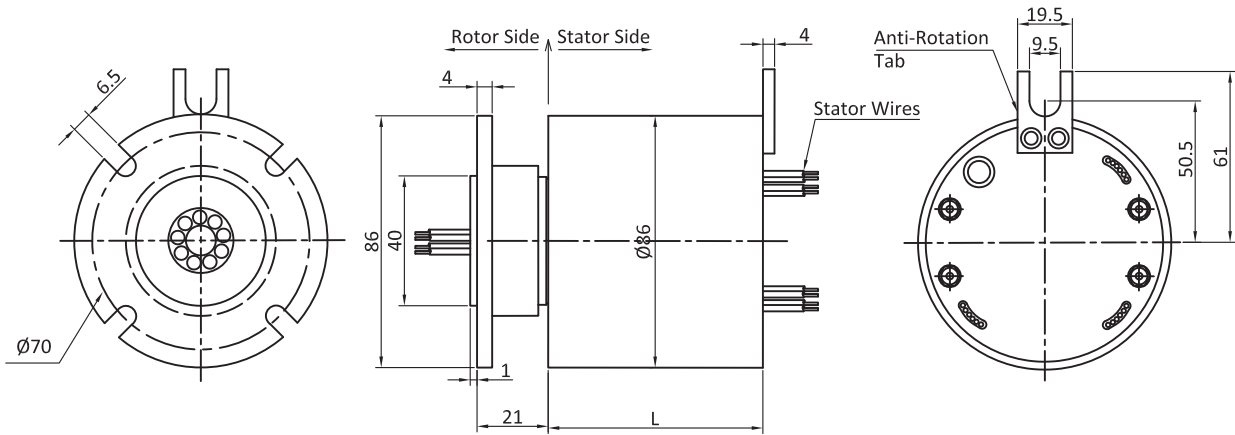
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

SEM00

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SEM00 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Notes: This series slip ring mainly used for servo motor system in rotation system, 1 motor include 1x power cable(4 cores) + 1x encoder cable(6 cores + shield), and also can combine with power / signal, so just send your requires to us, then we will design a suitable solution for you, thank you for your support!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

INTRODUCE

SEM25

SEM25 Series Overview

Description

SEM25 series slip ring with 25.4mm through hole for shaft installation, designed for the servo motor/encoder of automatic control systems, advanced design can avoid interference during encoder signal transmission.

Designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance, it also can combine with power / signal, high speed data transmission.



Specifications

Item	
Operating Speed	Max.500 RPM*
Number of Circuits	2~48 wires
Lead Wire	Encoder cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40°C to 80°C
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

Options

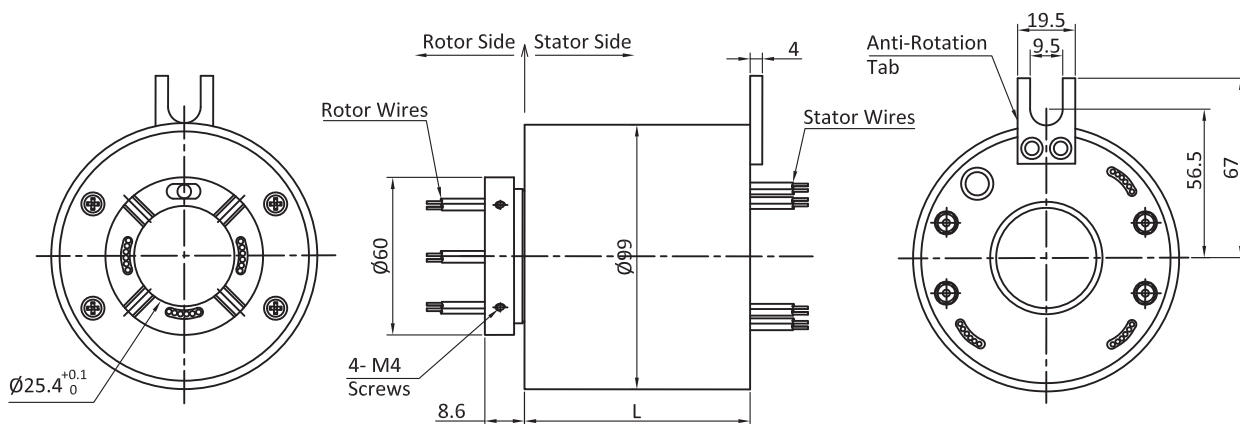
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

SEM25

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SEM25 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Notes: This series slip ring mainly used for servo motor system in rotation system, 1 motor include 1x power cable(4 cores) + 1x encoder cable(6 cores + shield), and also can combine with power / signal, so just send your requires to us, then we will design a suitable solution for you, thank you for your support!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

SEM50 Series Overview

Description

SEM50 series slip ring with 50mm through hole for shaft installation, designed for the servo motor/encoder of automatic control systems, advanced design can avoid interference during encoder signal transmission.

Designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance, it also can combine with power / signal, high speed data transmission.



Specifications

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	2~48 wires
Lead Wire	Encoder cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40°C to 80°C
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

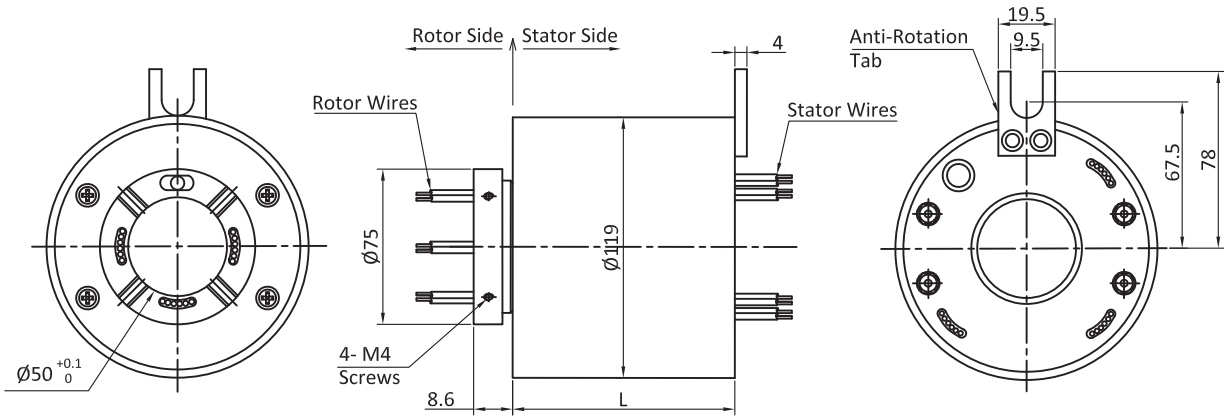
Options

- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

SEM50

SEM50 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Notes: This series slip ring mainly used for servo motor system in rotation system, 1 motor include 1x power cable(4 cores) + 1x encoder cable(6 cores + shield), and also can combine with power / signal, so just send your requires to us, then we will design a suitable solution for you, thank you for your support!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.