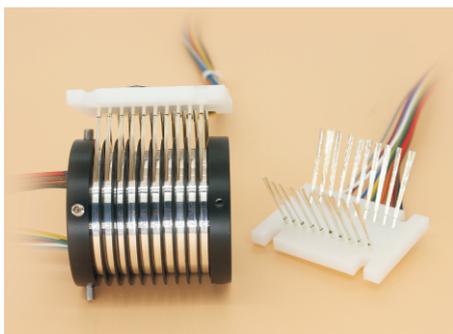


## S Series Separate Slip Ring



### Features

- why senring developed sns series Separate slip ring? Sometimes a self-contained
- Typical application: instrument, display and avionics, testing and measurement
- Options available slip ring, raised barrier (0.110 diameter) and V-groove 90° in each ring
- Brush block: Flying leads and gold or tin plated terminals
- High quality ring and brush

### Model List

Model	Circuits	OD	through hole size	length L(mm)
S010-06	6 circuits	14.3mm	9.55mm	13.2mm
S010-12	12 circuits	14.3mm	9.55mm	23mm
S000	1~48 circuits	25mm	12.7~200mm	100mm

\*If no standard models suitable, contact us for custom solutions, E-mail: [info@senring.com](mailto:info@senring.com) [senring.us@gmail.com](mailto:senring.us@gmail.com)

### Photos of Some Products

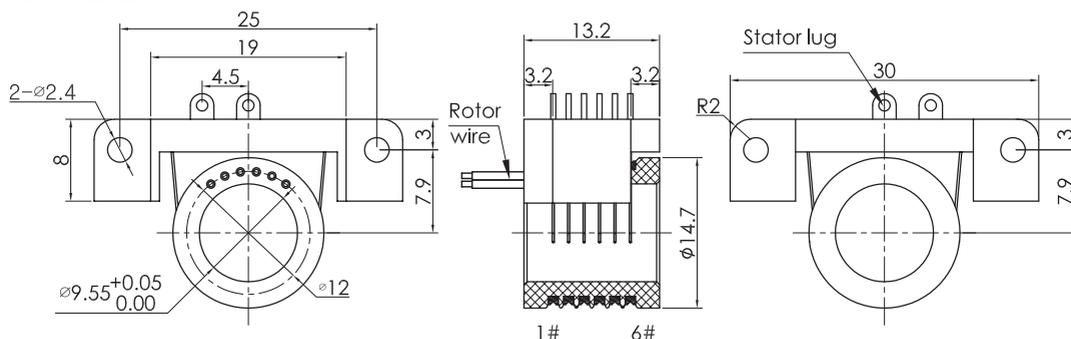




## S010-06 series 6 channels miniature separate slip ring

6 circuits,OD 14.3mm,hole size 9.55mm

S010-06 series 6 channels miniature separate slip ring ,with small size.Applied to some special situation instead of SenRing Capsule slip ring.Suitable for any motor machines to transmit supply power/signal when unrestricted,intermittent,or continuous rotation,which can improve the machine performance, simplify the system operation and avoid damaging the wire hanging in the moving part of the machine.With advantage of small size in barrel shaped stator,single continuous copper ring around the axis of rotation.Used for some devices require to transmit weak current or signals when 360° rotating ,due to its installation is more complicated than standard through hole slip rings and capsule slip rings , so Senring suggestion: It is better to avoid to choose separate slip ring if standard through hole slip ring can be used.



### Technical Specification of the slip ring

Mechanical Data		Electrical Data		
spec	data	spec	data	
Circuits	6 circuits	voltage range	power	signal
Rotating speed	250RPM	insulation resistance	0~250VAC/VDC	0~250VAC/VDC
working temp.	-40℃ ~80℃	lead wire spec.	≥1000MΩ/500VDC	≥1000MΩ/500VDC
work humidity	0~85% RH	lead wire length	AWG30# Silver -plated teflon	AWG30# Silver -plated teflon
contact material	precious metal:gold-gold	Dielectric Strength	standard 150mm(can be customized)	
material	RoHS compliant	Electrical noise	300VAC@50Hz,60s	
CE certificate	Yes		<0.01Ω	

### Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring#	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent

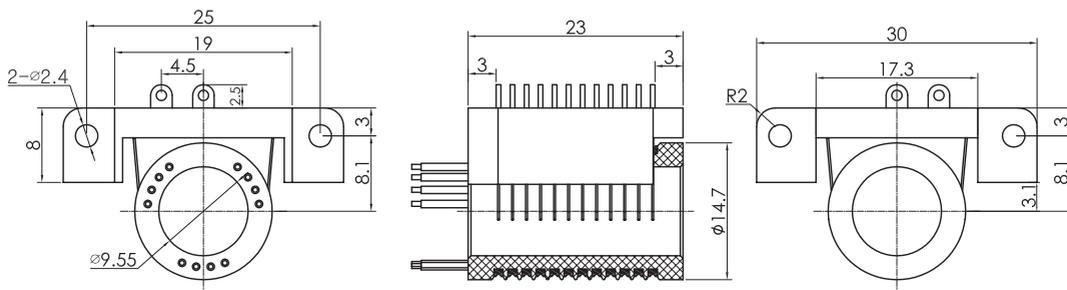
Remark: "1" : the first wire from rotor side , S010-06 wire color sequence:BLK/BRN/RED/ORG/YEL/GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....



## S010-12 series 12 circuits through hole separate slip ring

12 circuits, OD 14.3mm, hole size 9.55mm

SenRing SNS010-12 series 12 circuits miniature separate slip ring, with small size, housing length 23mm, OD 14.3mm, brush length 30mm, height 8.13mm, hole size 9.55mm, suitable for some special situation instead of SenRing Capsule slip ring. Applied to any devices to conduct or transmit a signal when 360° rotating which can improve machine performance, simplify system operation and avoid damage to wire hanging in moving parts of the machine. With advantage of small size in barrel shaped stator, while installation is more complicated than standard through hole slip rings and capsule slip rings.



### Technical Specification of the slip ring

Mechanical Data		Electrical Data		
spec	data	spec	data	
Circuits	12 circuits		power	signal
Rotating speed	250RPM	voltage range	0~250VAC/VDC	0~250VAC/VDC
working temp.	-40℃~80℃	insulation resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
work humidity	0~85% RH	lead wire spec.	AWG30# Silver -plated teflon	AWG30# Silver -plated teflon
contact material	precious metal:gold-gold	lead wire length	standard 150mm(can be customized)	
material	RoHS compliant	Dielectric Strength	300VAC@50Hz,60s	
CE certificate	Yes	Electrical noise	<0.01Ω	

### Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring#	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent

Remark: "1" : the first wire from rotor side , S010-12 wire color sequence:BLK/BRN/RED/ORG/YEL/GRN BLU/PUR/GRY/WHT/PINK/LGT BLU, 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....

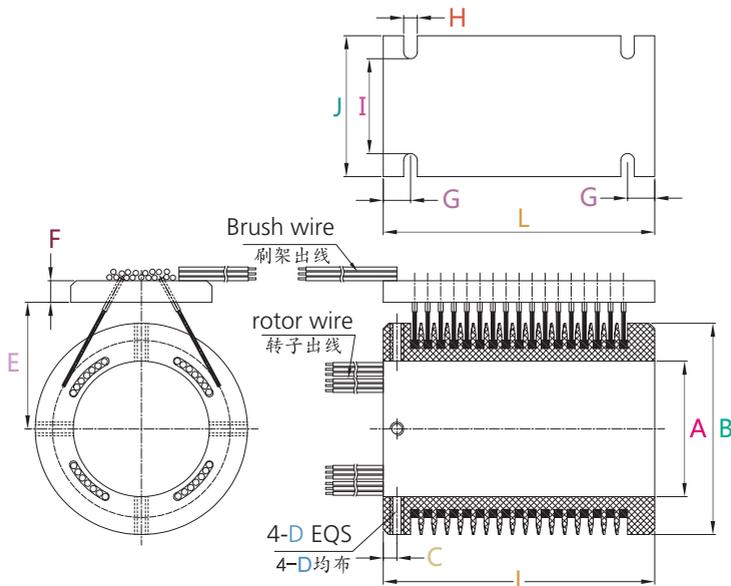
# S000 series 1~48 circuits separate slip ring

1~48 circuits, hole size 12.7~250mm



SenRing S000 series 1~48circuits separate slip ring, hole size 12.7mm~200mm optional, more channels(circuits no of current/signal) ,the length will be longer. Pls refer to the following table for details. Some devices require to transmit various current or signals when 360° rotating ,but due to space limit, standard through hole slip ring with large size is unsuitable, S000 series is specially designed to replace them. S000 series separate slip ring include rotor part and stator part which required to be installed separately, installation is more complicated than standard through hole slip rings, so Senring suggestion: It is better to avoid to choose separate slip ring if standard through hole slip ring can be used.

## Drawing



- \*Remark: N means circuit no, 1-48 circuits optional;
- \*Tip: 10A combined in parallel for multiple\*10A use;
- \*For example: 2 circuits of 10A in parallel for 20A use.

## Model List

Pls refer to below table according Spec Code marked on above drawing

Model	signal	Pls refer to below table according Spec Code marked on above drawing										
		A(OD)	B	C	D	E	F	G	H	I	J	L
S012	5A	12.7	32	3	M3	20	5	6	3.2	17	25	11.2+Nx2.8
S025	10A	25.4	52	4	M4	30	5	8	4.2	25	40	14.2+Nx4
S038	10A	38.1	62	4	M4	35	6	8	4.2	25	40	14.2+Nx4
S050	10A	50	76	4	M4	42	6	8	4.2	25	40	14.2+Nx4
S060	10A	60	92	5	M4	50	8	10	4.2	30	50	16.2+Nx4
S070	10A	70	102	5	M4	60	8	10	4.2	30	50	16.2+Nx4
S080	10A	80	116	5	M4	65	8	10	4.2	30	50	16.2+Nx4
S090	10A	90	140	6	M5	75	8	12	4.2	40	60	18.2+Nx4
S100	10A	100	140	6	M6	75	8	12	4.2	40	60	18.2+Nx4
S120	10A	120	158	6	M6	75	8	12	4.2	40	60	18.2+Nx4
S150	10A	150	194	6	M6	110	8	12	4.2	40	60	18.2+Nx4
S180	10A	180	222	6	M6	120	8	12	4.2	40	60	18.2+Nx4
S200	10A	200	244	6	M6	130	8	12	4.2	40	60	18.2+Nx6
S250	10A	250	306	8	M6	160	8	20	6.2	60	80	22.2+Nx6

\*Remark: N means circuit no, 1-48 circuits optional, N circuits of 10A to get N\*10A. such as 2 circuits of 10A in parallel for 20A use. if you need customize the hole size, OD, thickness, circuit no. and signal type of slip ring, pls contact the SenRing technician: 186 7557 7111.

## Technical Specification of the slip ring

Mechanical Data		Electrical Data		
spec	data	spec	data	
Circuits	1~48 circuits		power	signal
Rotating speed	250RPM	voltage range	0~440VAC/VDC	0~440VAC/VDC
working temp.	-40℃~80℃	insulation resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
work humidity	0~85% RH	lead wire spec.	AWG17# Silver -plated teflon	AWG22# Silver -plated teflon
contact material	precious metal:gold-gold	lead wire length	standard 250mm(can be customized)	
material	RoHS compliant	Dielectric Strength	300VAC@50Hz,60s	
CE certificate	Yes	Electrical noise	<0.01Ω	

## Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring#	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent