MSP SERIES

MSP Series separated slip rings

At sometime, MSP series(separate slip ring) (rotor) and brush block(stator) could settle down the problem of dimension limitation.

- 2-24 wires of brush and rotor suits are available.
- 9.5mm to 25.4mm through bore or no through bore are option.

It is specially fit for kinds of precise instruments or limited space for installation



| MODEL# | MAX OD(MM) | CIRCUITS | BORE | MAX SPEED |
|--------|------------|----------------------------|-------|-----------|
| MSP103 | 2.9mm | Signal(2A) each @ 3 wires | SOLID | 250RPM |
| MSP104 | 3.5mm | Signal(2A) each @ 4 wires | SOLID | 250RPM |
| MSP106 | 14.73mm | Signal(2A) each @ 6 wires | 9.5mm | 250RPM |
| MSP112 | 14.73mm | Signal(2A) each @ 12 wires | 9.5mm | 250RPM |

MSP103 SERIES

MSP103 Slip Rings

MSP103 slip rings are miniture, separated slip ring, with 3 rings signal/2A, are standard, off-the -shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

MSP1039 is the high-end version corresponding to MSP103, See difference as below:

| | Max Speed | Working life | Torque | Electrical noise① @10Rpm |
|---------|-----------|--------------|-----------|-----------------------------|
| MSP103 | 250RPM | 20million | 0.02 N·m | 10mΩ |
| MSP1039 | 1000RPM | 100million | 0.005 N·m | 4mΩ |



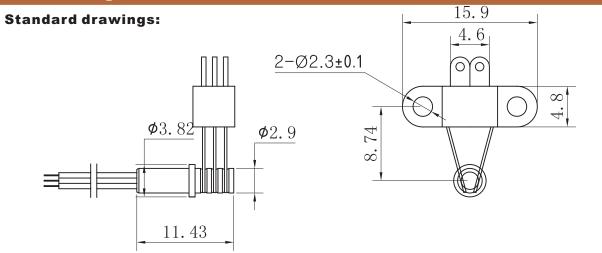
Specifications

| Specifications | | | | | |
|-----------------------|--------------------------|------------------|--------------------------|--|--|
| Circuits Num | 3 | current | 2A/signal | | |
| Rating voltage | 210 VDC / 240 VAC | Contact material | Precious Metal:Gold-Gold | | |
| Dielectric strength | 600VDC@50Hz | Lead Wire | UL Teflon® Awg28 | | |
| Insulation resistance | 1000MΩ@500VDC | Lead Lengths | 250mm | | |
| Operating Temp. | -40°C to 80°C | Protection | IP51 | | |
| Mechanical vibratio | MIL-SID-810E | Humidity | 10% to 90% RH | | |
| Materials | Lead Free,RoHS compliant | CE Certified | YES | | |

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28 colored code.
- 3)Electrical noise is dependent upon the rotating speed and current, voltage.

Drawings



Application

Typical Application

- ▶ CCTV Monitoring System.
- ▶ Electrical test equipment.
- Medical equipment.
- Rotary tableRobotics
- Laboratory equipmen
- Manufacturing and process control equipment
- and so on.
- if you want to use this series slip ring on your mechanism, pls contact us for more application: technical@moflon.com

MSP104 - MSP SERIES

MSP104 Slip Rings

MSP104 slip rings are miniture, separated slip ring, with 4 rings signal/2A, are standard, off-the -shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

MSP1049 is the high-end version corresponding to MSP104, See difference as below:

| | ŭ | • | ŭ | • |
|---------|-----------|--------------|-----------|-----------------------------|
| | Max Speed | Working life | Torque | Electrical noise① @10Rpm |
| MSP104 | 250RPM | 20million | 0.02 N·m | 10mΩ |
| MSP1049 | 1000RPM | 100million | 0.005 N·m | 4mΩ |



Specifications

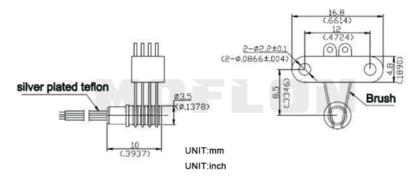
| Specifications | | | | | |
|-----------------------|--------------------------|------------------|--------------------------|--|--|
| Circuits Num | 4 | current | 2A/signal | | |
| Rating voltage | 210 VDC / 240 VAC | Contact material | Precious Metal:Gold-Gold | | |
| Dielectric strength | 600VDC@50Hz | Lead Wire | UL Teflon® Awg28 | | |
| Insulation resistance | 1000MΩ@500VDC | Lead Lengths | 250mm | | |
| Operating Temp. | -40°C to 80°C | Protection | IP51 | | |
| Mechanical vibratio | MIL-SID-810E | Humidity | 10% to 90% RH | | |
| Materials | Lead Free,RoHS compliant | CE Certified | YES | | |

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28 colored code.
- 3)Electrical noise is dependent upon the rotating speed and current, voltage.

Drawings

Standard drawings:



Application

Typical Application

- ▶ CCTV Monitoring System.
- Electrical test equipment.
- Medical equipment.
- Rotary tableRobotics
- RODOLICS
- Laboratory equipmen
- Manufacturing and process control equipment
- and so on..
- if you want to use this series slip ring on your mechanism, pls contact us for more application: technical@moflon.com

MSP106 - MSP SERIES

MSP106 Slip Rings

MSP106 slip rings are miniture, separated slip ring, with 6 rings signal/2A, are standard, off-the -shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

MSP1069 is the high-end version corresponding to MSP106, See difference as below:

| | Max Speed | Working life | Torque | Electrical noise① @10Rpm |
|---------|-----------|--------------|-----------|-----------------------------|
| MSP106 | 250RPM | 20million | 0.02 N·m | 10mΩ |
| MSP1069 | 1000RPM | 100million | 0.005 N·m | 4mΩ |



Specifications

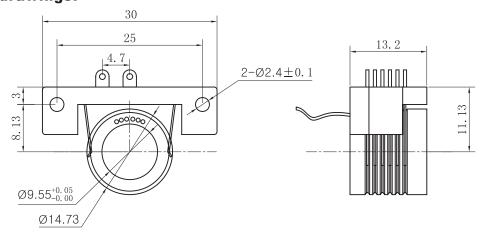
| Specifications | | | | | | |
|--|--------------------------|------------------|--------------------------|--|--|--|
| Circuits Num | 6 | current | 2A/signal | | | |
| Rating voltage 210 VDC / 240 VAC Dielectric strength 600VDC@50Hz | | Contact material | Precious Metal:Gold-Gold | | | |
| | | Lead Wire | UL Teflon® Awg28 | | | |
| Insulation resistance 1000MΩ@500VDC | | Lead Lengths | 250mm | | | |
| Operating Temp40°C to 80°C Mechanical vibratio MIL-SID-810E | | Protection | IP51 | | | |
| | | Humidity | 10% to 90% RH | | | |
| Materials | Lead Free,RoHS compliant | CE Certified | YES | | | |

Notes

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28 colored code.
- 3)Electrical noise is dependent upon the rotating speed and current, voltage.

Drawings

Standard drawings:



Application

Typical Application

- ▶ CCTV Monitoring System.
- Electrical test equipment.
- Medical equipment.Rotary table
- Rotary talRobotics
- Laboratory equipmen
- Manufacturing and process control equipment
- ▶ and so on...
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MSP112 - MSP SERIES

MSP112 Slip Rings

MSP112 slip rings are miniture, separated slip ring, with 12 rings signal/2A, are standard, off-the -shelf.Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

MSP1069 is the high-end version corresponding to MSP106, See difference as below:

| | Max Speed | Working life | Torque | Electrical noise① @10Rpm |
|---------|-----------|--------------|-----------|-----------------------------|
| MSP112 | 250RPM | 20million | 0.02 N·m | 10mΩ |
| MSP1129 | 1000RPM | 100million | 0.005 N·m | 4mΩ |



Specifications

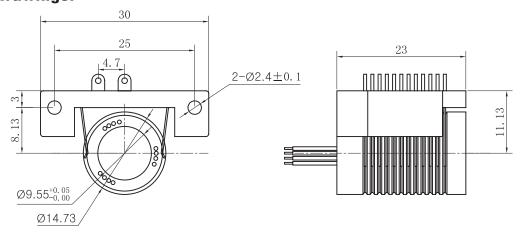
| Specifications | | | | | |
|-----------------------|--------------------------|------------------|--------------------------|--|--|
| Circuits Num | 12 | current | 2A/signal | | |
| Rating voltage | 210 VDC / 240 VAC | Contact material | Precious Metal:Gold-Gold | | |
| Dielectric strength | 600VDC@50Hz | Lead Wire | UL Teflon® Awg28 | | |
| Insulation resistance | 1000MΩ@500VDC | Lead Lengths | 250mm | | |
| Operating Temp. | -40°C to 80°C | Protection | IP51 | | |
| Mechanical vibratio | MIL-SID-810E | Humidity | 10% to 90% RH | | |
| Materials | Lead Free,RoHS compliant | CE Certified | YES | | |

Notes

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG28 colored code.
- 3)Electrical noise is dependent upon the rotating speed and current, voltage.

Drawings

Standard drawings:



Application

Typical Application

- ▶ CCTV Monitoring System.
- Electrical test equipment.
- Medical equipment.Rotary table
- Robotics
- Laboratory equipmen
- Manufacturing and process control equipment
- and so on...
- if you want to use this series slip ring on your mechanism, pls contact us for more application: technical@moflon.com