

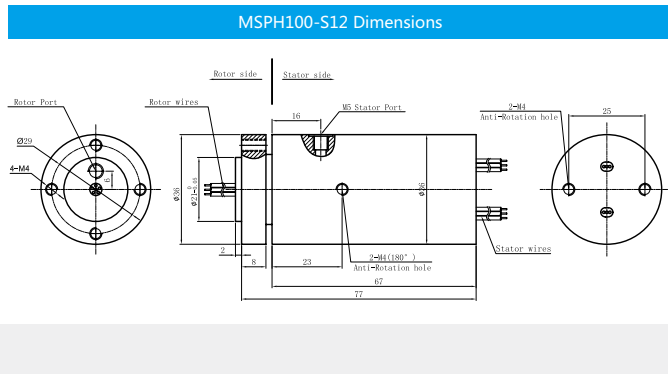
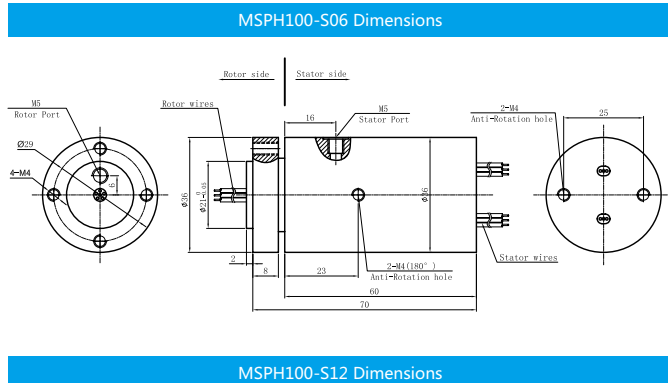
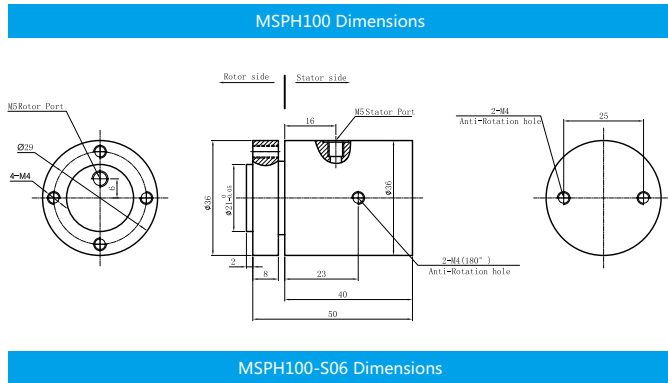
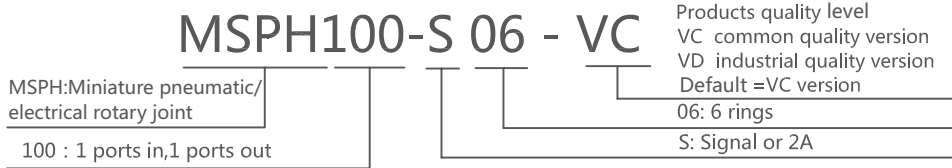
MSPH100 Series

(Miniature 1 Passage Fluid / Electrical Rotary Union)

Miniature MSPH100,1 passage pneumatic/electrical slip ring, rotary joint,connection size with M5,it can combine Power wires,Signal wires,Industrial Bus,Control cable,Solenoid valve,Induction cable etc.Standard flange mounting.

Media Types: Compress Air/Gas, Vacuum;Can combine 6,12 circuits(2A),can also use pneumatic part,without circuits.

Part# Explanation



Parts# List

| MSPH100 Miniature Pneumatic/Electrical rotary joint Parts List | | | | |
|--|---------|-------------|-----------------|--------------|
| Part# | Passage | Torque(N.M) | Connection size | Signal or 2A |
| MSPH100 | 1 | 0.2N.m | M5 | -- |
| MSPH100-S06 | 1 | 0.2N.m | M5 | 6 |
| MSPH100-S12 | 1 | 0.2N.m | M5 | 12 |

Note:N channels 2A rings parallel can be used as 1 channel N*2A current. For example: 2 rings 2A parallel could be used as 1 wires 4A.

Specifications

| Rotary Joint Specifications | | | Mechanical Data | |
|-----------------------------|--|----------------|---------------------|---------------------------------|
| Parameter | Value | | Parameter | Value |
| Passages | 1port in,1 port out, M5 | | Working Life | See Product Quality Level Table |
| Max pressure | 5MPa (can be customized) , Vacuum 0.01torr | | Rotating Speed | See Product Quality Level Table |
| Torque | See Part#List | | Working Temperature | -30°C~80°C |
| Electrical Data | | | Operating Humidity | 0~85% RH |
| Parameter | Value | | Contact Material | See Product Quality Level Table |
| | Power | Signal | Housing Material | aluminium alloy |
| Rated Voltage | 0~440VAC/VDC | 0~440VAC/VDC | Rotational Torque | 0.5N.m ; +0.03N.m/6rings |
| Insulation Resistance | ≥1000MΩ/500VDC | ≥1000MΩ/500VDC | Protection Grade | IP51 |
| Lead Wires | AWG28#Teflon | AWG28#Teflon | | |
| Lead Length | Standard 300mm (adjustable) | | | |
| Dielectric Strength | 500VAC@50Hz , 60s | | | |
| Electrical Noise | <0.01Ω | | | |

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|-----------------|------------------|
| VC | 100RPM | 10 Million Revs | Precious Metal |
| VD | 300RPM | 30 Million Revs | Gold-plated |

Lead Wires Color Code

| Lead Wires Color Code | | | | | |
|-----------------------|-------|------|-------|------|-------|
| Ring | Color | Ring | Color | Ring | Color |
| 1 | BLK | 5 | BLU | 9 | YEL |
| 2 | RED | 6 | WHT | 10 | GRN |
| 3 | YEL | 7 | BLK | 11 | BLU |
| 4 | GRN | 8 | RED | 12 | WHT |

Note: (6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe)

Options For Custom Slip Ring

Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can up to 500 degrees.
- ⑪ High pressure can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

Technical support: technical@moflon.com