

MSPH400

(Miniature 4 Passages Fluid / Electrical Rotary Union)

Miniature MSPH400, 4 passages 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

MSPH400-S 06 - VC

MSPH: Miniature pneumatic/
electrical rotary joint

400 : 4 ports in, 4 ports out

Products quality level

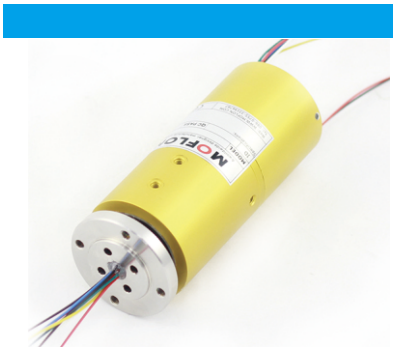
VC common quality version

VD industrial quality version

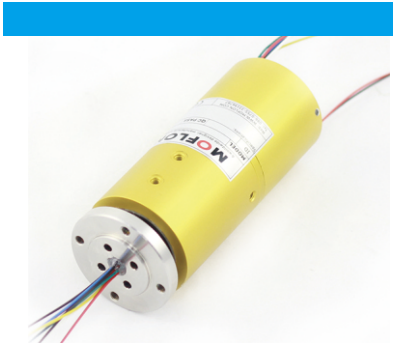
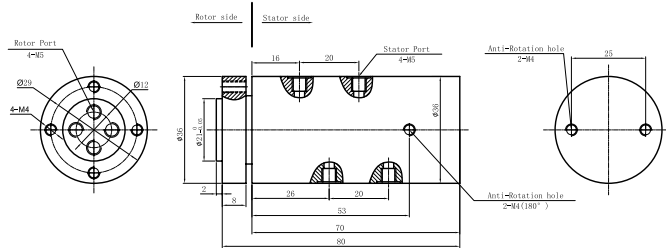
Default = VC version

06: 6 rings

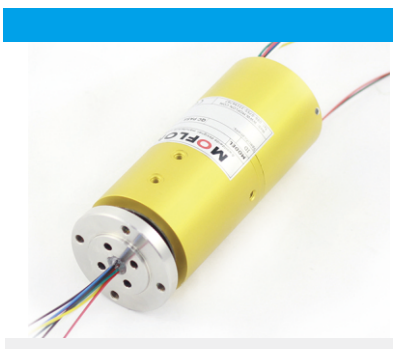
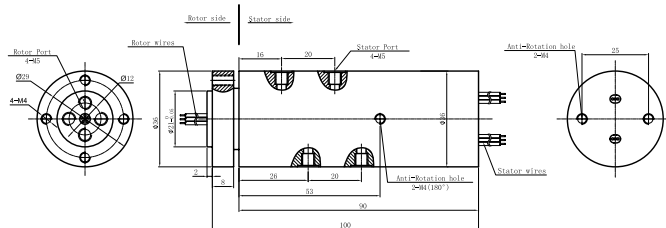
S: Signal or 2A



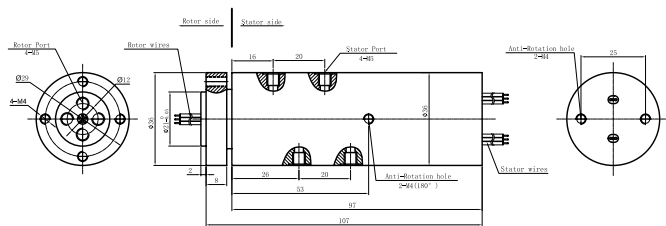
MSPH400 Dimensions



MSPH400-S06 Dimensions



MSPH400-S12 Dimensions



Parts# List

MSPH400 Miniature Pneumatic/Electrical rotary joint Parts List

Part#	Passage	Torque(N.M)	Connection size	Signal or 2A
MSPH400	4 ports in 4 ports out	1.2N.m	M5	--
MSPH400-S06	4 ports in 4 ports out	1.2N.m	M5	6
MSPH400-S12	4 ports in 4 ports out	1.2N.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	4 ports in, 4 ports 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