

FHG50120 Series

Slip rings of the FHG50120 series are specially design for IP65~68 water-proof and dust-proof slip ring, Grand applies noble precious metal reduced noises and interference between circuits, low friction torque assures long life-span. FHG50120 series with through hole 50mm, OD120mm, suitable for rotating application which requires a through hole $\leq 50\text{mm}$, Standard model supports 1-36 power rings(0-20A/ring) or 1-72 signal rings(0~5A/ring).

Features

- ◆ Waterproof slip ring, IP68, can work underwater of 1500M deep ocean, mainly applied to ships and oil wells.
- ◆ Multi-point brush contact material ensure long life
- ◆ Anti-corrosion stainless steel housing for better protection
- ◆ Integrated structure design for easy installation
- ◆ Standard model and customization are available
- ◆ Standard model supports 1-96rings power or signal(0~20A/ring)
- ◆ Free maintenance

Typical applications

- ◆ Automatic machines
- ◆ Cable reels
- ◆ Robotics, rotary sensors, urgent illumination equipment
- ◆ Exhibit / display equipment
- ◆ Packaging
- ◆ Rotary table
- ◆ Medical,Pharmaceutical equipment
- ◆ Converting machines
- ◆ Capping machines
- ◆ Labeling machines
- ◆ Filling machine
- ◆ Machine tools

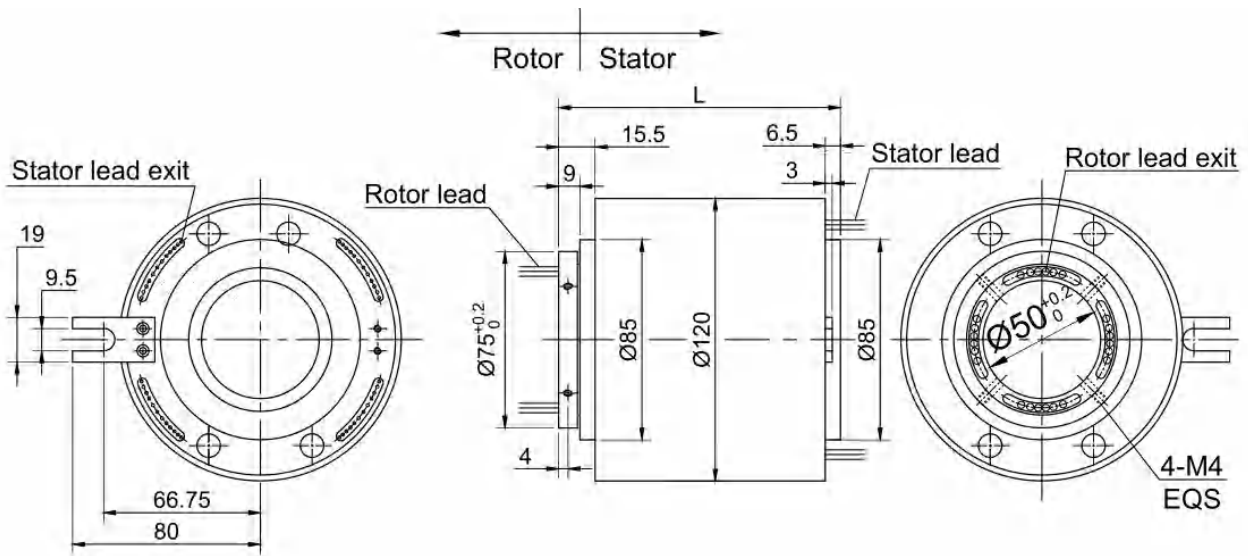
Options

- ◆ No. of rings
- ◆ Current &voltage
- ◆ Connector
- ◆ Housing material
- ◆ Position of wire outlet, wire length
- ◆ Flange mounting is optional
- ◆ Operating temperature
- ◆ Support mixed high speed data transmission(including Ethernet, USB, Profibus, Ethernet, CANOPEN, CANBUS, RS232, RS485, etc.)
- ◆ Fluidic rotary joints, FORJ and electric slip ring can be mixed.

Specifications

Electrical Data		Mechanical Data	
No of rings	1~72rings	Inner Diameter	50mm
Rated Voltage	0~240 VAC/VDC	Outer Diameter	120mm
Rated Current	5A/ring, 10A/ring, 15A/ring,20A/ring	Working Speed	0-250rpm
Lead Size	Sliver plated Teflon colour coded AWG22(5A), AWG16(10A), AWG14(15A/20A)	Working Temperature	-40°C~+80°C
Lead Length	Standard 500mm (adjustable)	Working Humidity	60% RH or higher
Dielectric Strength	500VAC@50HZ,60S	Housing Material	Aluminum alloy
Insulation Resistance	500MΩ/500VDC	Contact material	Precious material
Electrical Noise	<0.01Ω	IP rating	IP65~IP68

Drawing for Outline Dimension



Model List

Model	Power Ring(10A/15A/20A)	Signal Ring(5A)	Length (mm)
FHG50120-6P	6	-	90
FHG50120-12S	-	12	90
FHG50120-12P	12	-	120
FHG50120-6P/12S	6	12	120
FHG50120-24S	-	24	120
FHG50120-18P	18	-	150
FHG50120-12P/12S	12	12	150
FHG50120-6P/24S	6	24	150
FHG50120-36S	-	36	150

FHG50120-24P	24	-	180
FHG50120-18P/12S	18	12	180
FHG50120-12P/24S	12	24	180
FHG50120-6P/36S	6	36	180
FHG50120-48S	-	48	180
FHG50120-30P	30	-	210
FHG50120-24P/12S	24	12	210
FHG50120-18P/24S	18	24	210
FHG50120-12P/36S	12	36	210
FHG50120-6P/48S	6	48	210
FHG50120-60S	-	60	210
FHG50120-36P	36	-	240
FHG50120-30P/12S	30	12	240
FHG50120-24P/24S	24	24	240
FHG50120-18P/36S	18	36	240
FHG50120-12P/48S	12	48	240
FHG50120-6P/60S	6	60	240
FHG50120-72S	-	72	240