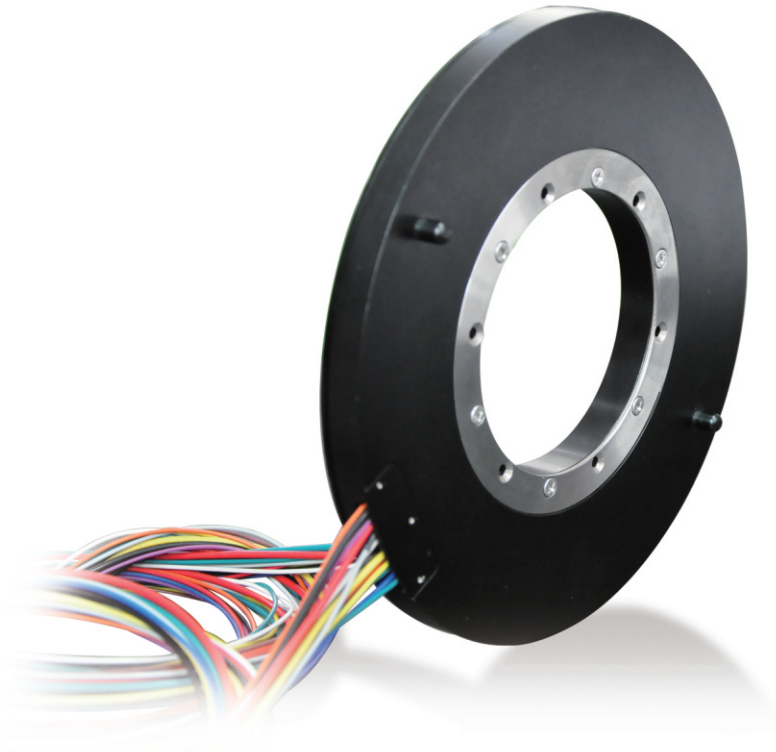


Radar Slip Rings



Modern radar systems are widely needed in civil, military and defense fields. A high performance rotary joint/slip ring is essential for the system's transmission of RF signal, power, data and electrical signals. As a creative and innovative provider of 360° rotating transmission solutions, AOOD provide a variety of integrated solutions of electrical slip ring and coax/ waveguide rotary joint to civil and military radar clients.

Civil use radar slip rings usually require only 3 to 6 circuits to provide power and signals and need be cost-effective. But military use radar slip rings have more complicated requirements. They may need more than 200 circuits for power supply and various signals transmission in limited space, and more importantly, they need meet certain military environmental requirements: temperature, humidity, shock and vibration, thermal shock, altitude, dust/sand, salt fog and spray etc.

Both civil and military use radar electrical slip rings can be combined with single/ dual channels coaxial or waveguide rotary joints or combination of these two types. Cylindrical shape and platter shape with a hollow shaft to suit for vehicle-mounted radar system or radar pedestal available.

Features

- Can integrated with 1 or 2 channels coax/waveguide rotary joint
- Transfer power, data, signal and RF signal through an integrated package
- A variety of existing solutions
- Cylindrical and platter shape optional
- Custom cutting edge military use solutions available

Advantages

- Flexible combination of power, data and RF signal
- Low resistance and low crosstalk
- High shock and vibration capabilities
- Easy to use
- Long lifetime and maintenance-free

Typical Applications

- Weather radar and air traffic control radar
- Military vehicle-mounted radar systems
- Marine radar systems
- TV broadcast systems
- Fixed or mobile military radar systems

Radar Slip Rings

Model	Channels		Current(amps)			Voltage(VAC)	Bore	Size	RPM
	Electrical	RF	2	10	15		Dia (mm)	DIA x L (mm)	
ADSR-T38-6FIN	6	2		6		380	35.5	99 x 47.8	300
ADSR-LT13-6	6	1	6			220	13.7	34.8 x 26.8	100
ADSR-LT70-6	6	1 RF + 1 waveguide	4	2		380	70	119 x 37	100
ADSR-P82-14	14	14	12		2	220	82	180 x 13	50

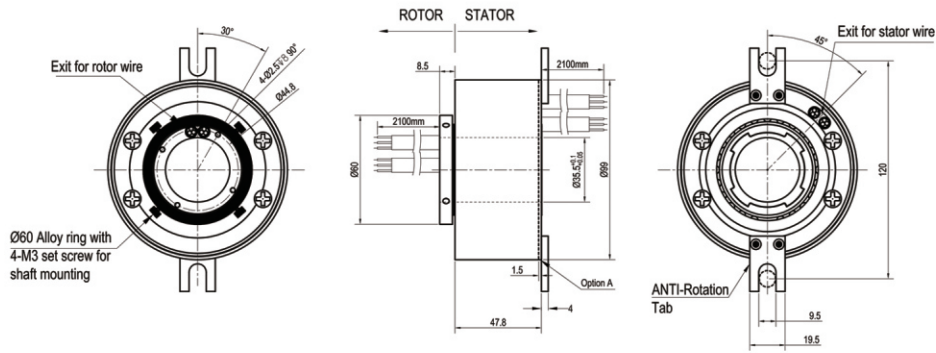
Remark: RF channels are optional, 1 ch RF rotary joint up to 18 GHz. Customized solutions available.

Specification

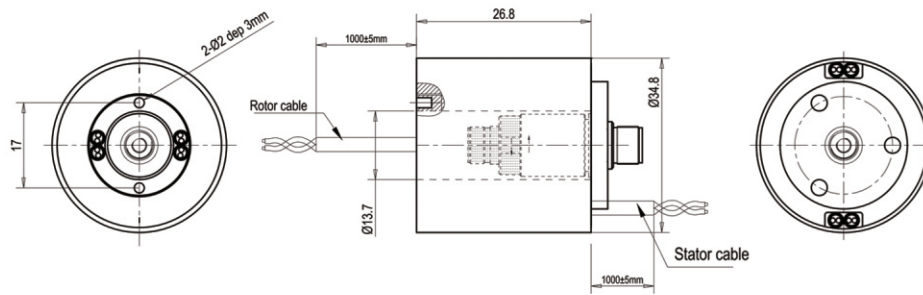
Electrical	
Voltage	120VAC / 240VAC / 380VAC
Rating Current	2A / 10A / 15A
Insulation Resistance	500MΩ@ 500VDC
Electric Noise	20mΩ max
Dielectric Strength	500VAC @ 50Hz
Mechanical	
Operating Speed	100rpm / 250rpm / 300 rpm
Torque	<0.01 N*M
Life	50,000,000 revolutions
Materials	
Contact Material	Precious metal
Lead Wires	Teflon wires
Housing	Aluminium alloy

Environmental	
Working Temperature	-40°C~ +80°C
Storage Temperature	-45°C~ +85°C
Humidity	95±3% (30°C+5°C)
Protection	IP54
Vibration	MIL-STD-810G
Shock	MIL-STD-810G
Options	
■ Lead wires length	
■ flange/ no flange	
■ Higher voltage, current, speed	
■ Higher protection	
■ Stainless steel housing	

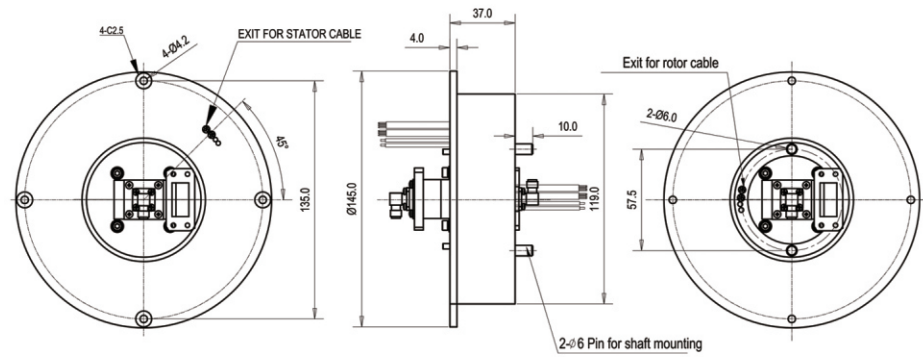
▶ ADSR-T38-6FIN



▶ ADSR-LT13-6



▶ ADSR-LT70-6



▶ ADSR-P82-14

