

# MSDI Series HD-SDI Slip Ring

## Single channel HD-SDI + 12~30 circuit signal (2A)

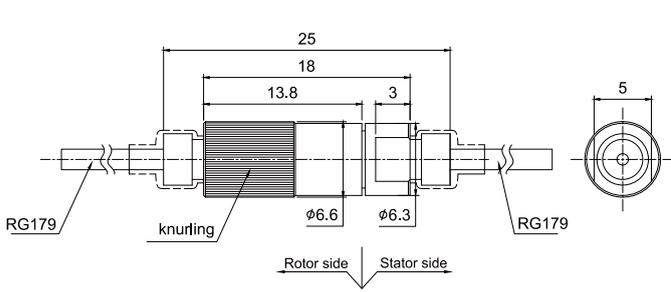
MSDI212 high-definition slip ring supports 1 channel HD-SDI signal (coaxial-cable) + 12~30 circuits Signal (2A). MSDI series slip rings are high-end products, specially designed to support high definition video signal 1080P. This series slip ring can support max rate 3GHZ, also can combine with 1~30 circuits signal and weak current. This series product brings in and adopts military-grade surface treatment process in USA. It deals with brushes for hard gold plating, which guarantees the low resistance fluctuation and long working life. This product is mainly used for transmitting weak controlling signal for small and medium application, such as video, control, sensor, power, Ethernet, etc. Typical application: HD security monitor, photographic camera, HD camera.



High-definition Core



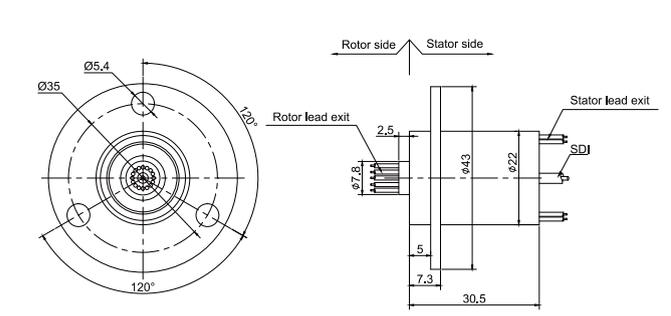
MSDI200 Dimensions



MSDI1216



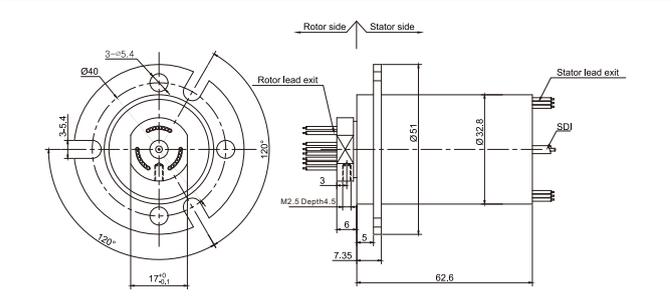
MSDI1216 Dimensions



MSDI1224

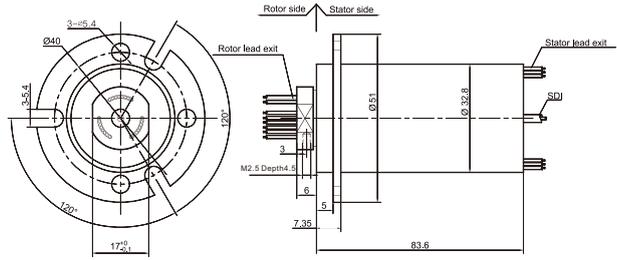


MSDI1224 Dimensions



## MSDI230

## MSDI230 Dimensions



### Parts# List

MSDI High-definition slip ring part list			
Parts#	HD-SDI	signal (2A)	OD*L
MSDI200	1 channel RG-179(75Ω)	0	Φ6.6mm*18mm
MSDI216	1 channel RG-179(75Ω)	16	Φ22.0mm*30.5mm
MSDI224	1 channel RG-179(75Ω)	24	Φ32.8mm*62.6mm
MSDI230	1 channel RG-179(75Ω)	30	Φ32.8mm*83.6mm

Note: N rings 2A in parallel can be used as 1 channel N\*2A current. For example: 2 rings 2A in parallel can be used as 1 channel 4A

### Specifications

RF Rotary Joint Specifications			
Input And Output	RG-179/U	Max Speed	50RPM
Working Life	200million revolutions	Connector Types	BNC/F
Impedance	75 ohms	Rating Current	DC 1A Max
Electrical data			
Parameter	Value		
	Power	Signal	
Rated Voltage	0~220VAC/VDC	0~220VAC/VDC	
Insulation Resistance	≥100MΩ/220VDC	≥100MΩ/220VDC	
Lead Wire	AWG28#Teflon		
Lead Length	standard length 300mm (adjustable)		
Insulation Strength	500VAC@50Hz, 60s		
Electrical Noise	<0.01μ		
Mechanical data			
Parameter	Value		
Working Life	50 million revs		
Rotating Speed	250RPM		
Working Temperature	-30°C~80°C		
Operating Humidity	0~85% RH		
Contact Material	gold-gold		
Housing Material	aluminum alloy		
Torque	0.05N.m; +0.01N.m/6 rings		
Protection Grade	IP51		

### Lead Wires Color Code

#### MSDI216:

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BK	RD	GN	OG	BU	WT	PL	GY	YL	BN	CR	PK
Ring	13	14	15	16	17	18						
Color	WT/RD	WT/BK	WT/BU	WT/BN	WT/GN	WT/YL						

#### MSDI224/230:

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BK	RD	YL	GN	BU	WT	BK	RD	YL	GN	BU	WT

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