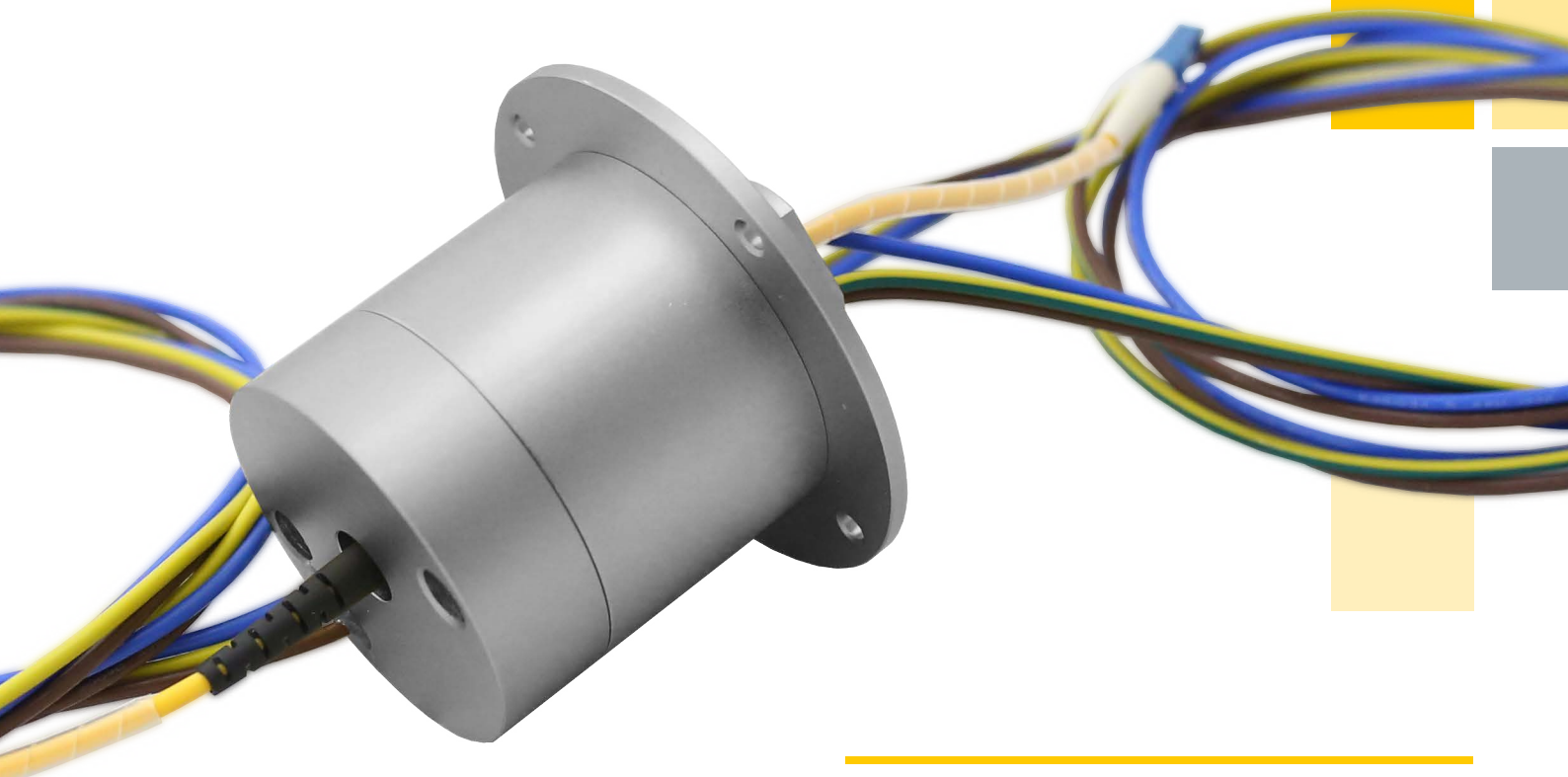


ROTARX<sup>®</sup>

Hybrid Slip Rings

FIBER OPTICAL+ ELECTRIC



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High-Performance Power,  
Signal and Media Transmission

## COMPACT SLIP RINGS

### Our other available catalogues:

COMPACT SLIP RINGS SOLUTIONS (General catalogue)	(256 pages)
CAPSULATED MINIATURE SLIP RINGS	(44 pages)
AUTOMATION SLIP RINGS	(32 pages)
THROUGH-BORE SLIP RINGS	(68 pages)
PANCAKE SLIP RINGS - with Housing - without Housing	(42 pages)
SEPARATE SLIP RINGS	(28 pages)
FASTON SLIP RINGS	(24 pages)
MINIATURE HYBRID SLIP RINGS	(24 pages)
HYBRID SLIP RINGS - Ethernet + Electric	(34 pages)
HYBRID SLIP RINGS - Pneumatic / Liquid + Electric	(72 pages)
HYBRID SLIP RINGS - USB + Electric	(30 pages)
HYBRID SLIP RINGS - Coax + Electric	(40 pages)
HYBRID SLIP RINGS - HD-SDI (1080p)+ Electric	(26 pages)

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# The Company

## Quality and Safety

B-COMMAND was founded in 1995. Since more than 20 years the company has put its focus on **production and sales of electro technical components to all parts of the globe.**

In the early years B-COMMAND focused on electro-mechanical control solutions mainly for the national crane market. Throughout the years the sales area was widened to many international countries and the second main product focus became wind power technology. The company started developing and manufacturing of special limit switches for wind turbines which are still one of the major product lines today.

After more than 10 years of growth and success with electro-mechanical products, another different technology division was established: **electrical transmission technology.**

Due to many analogies with electro-mechanical products and many skilled engineers the new technology focus for transmission of power and signals had been implemented.

QUALITY MANAGEMENT  
Certification 2017



Production & Warehouse

In the beginning the products for electrical transmission technology included simple slip rings for transmitting small power ratings from fixed to rotating parts into machines.

Today, in times of Industry 4.0 and industrial networks, the program contains more than **20.000 possible solutions with combined power and signal transmission, high-frequency solutions, different housing types and super-miniature solutions.**



Offices of our Headquarters Hamburg



## Our technical expertise guarantees the right solution for your applications.

Since more than 10 years the company is certified according to **DIN EN ISO9001:2015 by TÜV in Germany.** All management and production processes are created and approved according to international standards. Especially a **flexible production structure allows short delivery times also for small volume orders or prototypes.**

The purchasing organization of B-COMMAND is internationally targeted. Raw material and production components are sourced from best-rated suppliers worldwide. A network of specialists for all materials is available for developing the best solution for the customers requirements resulting in a perfect fitting product for all individual projects.

B-COMMAND has an international sales network of distributors and sales partners for all regions. Some of the distributors even offer spare parts or series demand products from their own stock in the different countries.

## CONTACT

B-COMMAND GmbH

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22339 DE Hamburg

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E. info@b-command.com  
W. www.b-command.com

All activities at B-COMMAND are focused on customer satisfaction. Creating perfect-fitting technical solutions with best quality for marked-based prices – this is our passion.





# Slip Rings Technology

Slip rings are essential electromechanical parts of commercial or industrial machinery. They have to ensure transfer of data, media, energy and electrical signals in best possible conditions. This can only be realized by combination of a targeted design process, selection of best raw materials, professional production conditions, 100% quality control and skilled assembling on customer side.

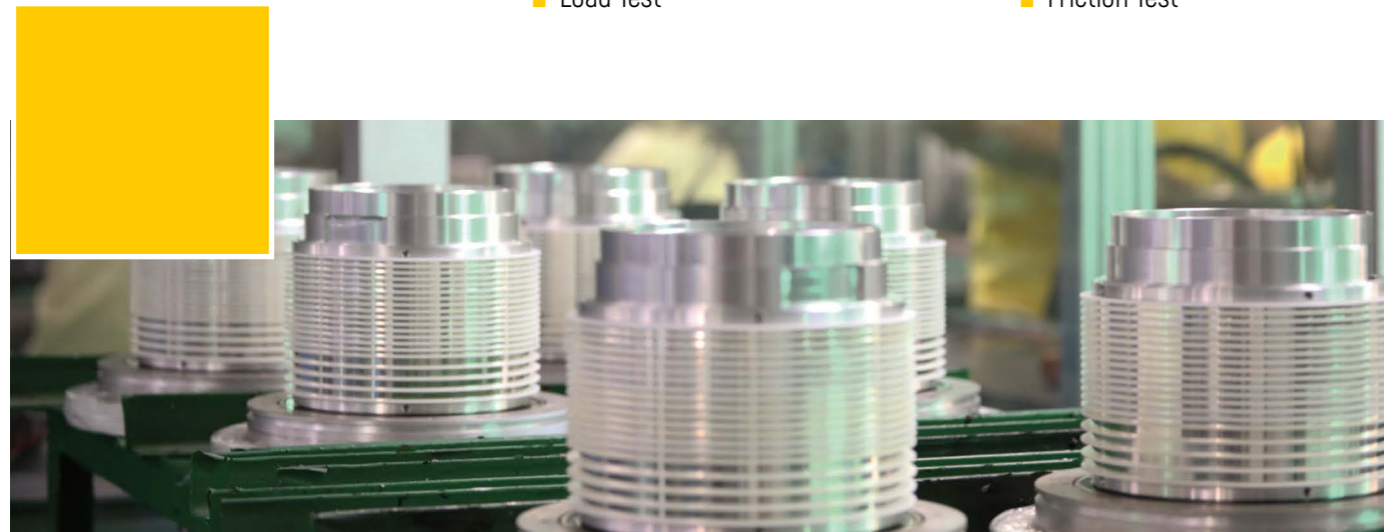


## PREMIUM ENGINEERING

With many years experience and a deep knowledge of all relevant engineering disciplines, B-COMMAND engineering team can provide fast and innovative design solutions for customers around the world. Our engineers are constantly developing new designs and use new materials across a wide spectrum of diverse environments.

In order to ensure only premium-quality products B-COMMAND is able to undertake following tests in our in-house laboratory:

- Humidity Test
- Temperature Test
- Protection Degree Test
- Vibration / Shock Test
- High Pressure / Vacuum Test
- Torque Test
- High Voltage Test
- Large Current Test
- Salt Spray Test
- Load Test
- Electrical Noise Test
- Contact Resistance Test
- Lifetime Test
- Insulation Test
- Frequency Test
- Friction Test



ROTARX - MINIATURE SLIP RINGS

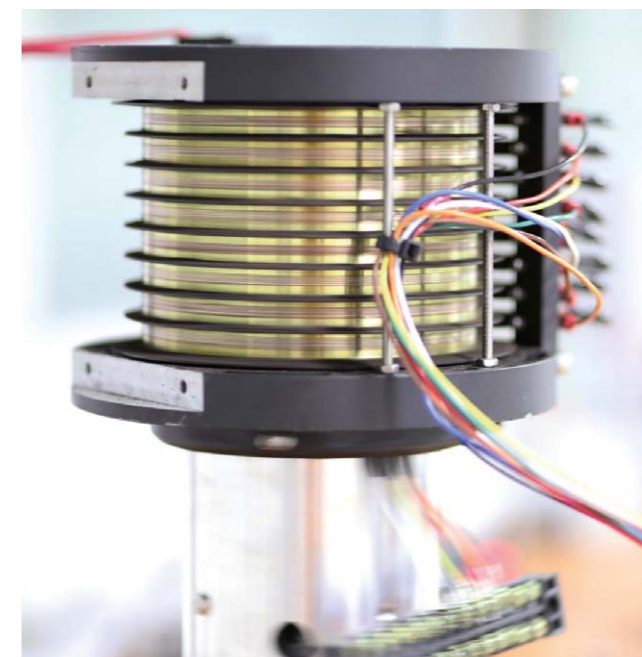
## TOTAL QUALITY CONTROL

High production depth is the key to total quality control. Therefore B-COMMAND has established extended electrical and mechanical production capabilities. Different automatic and semi-automatic multiple axis CNC machining centers, grinding machines, milling machines and coating machines offer a wide range of mechanical options during production process. Only experts with long-term knowledge are operating our machinery in order to grant best quality products for our customers.



## FLEXIBILITY

For B-COMMAND flexibility is not just a word, it is the basis of our organization. Flexible sales and R&D structures with capacity for extensive project inquiries from our customers are as well allocated as flexible production structures with high-volume series production and also fast-track options for small volume orders.



WWW.B-COMMAND.COM

## INNOVATION

The willingness of lifelong-learning and permanent interest in new technological trends sets our engineering team apart. Industrial communication and electrical complexity of everyday life have moved to a new level and they are still developing fast. We keep an eye on all new technologies, new applications, new materials and forward-looking innovations which can improve or re-invent our products.



# Slip Rings Applications



## WIND POWER TECHNOLOGY

- Small Wind Turbines
- Multi-MW-Turbines
- Signal & Power Transmission



## AEROSPACE TECHNOLOGY

- Drones
- Radars
- Thermal Imaging



## ROBOTIC TECHNOLOGY

- Production Robots
- Inspection Robots
- Packaging Robots



## CAMERA TECHNOLOGY

- TV-Cameras
- Security Cameras
- Inspection Cameras



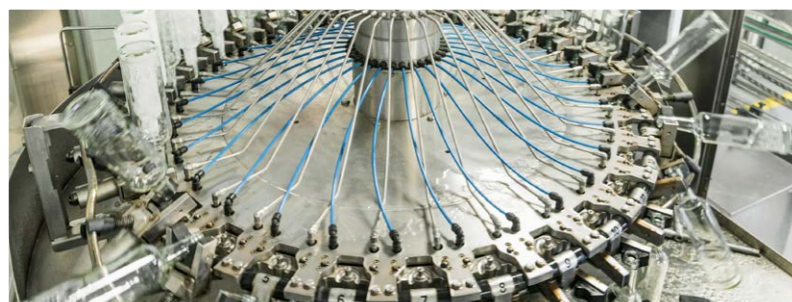
## CRANE TECHNOLOGY

- Post Cranes
- Tower Cranes
- Mobile Cranes



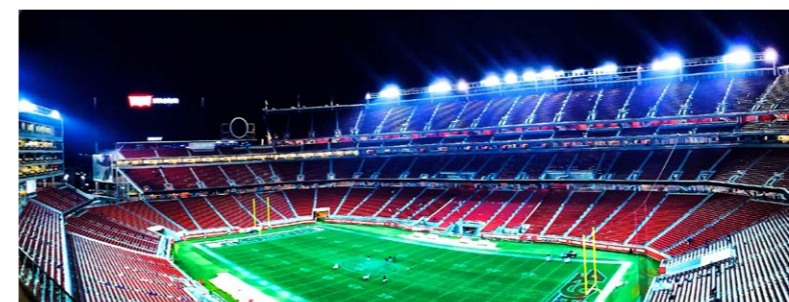
## AMUSEMENT TECHNOLOGY

- Pendulum Rides
- Observation Wheel
- Merry-Go-Round



## PACKAGING TECHNOLOGY

- Packaging Robots
- Filling Machines
- Capping Machines

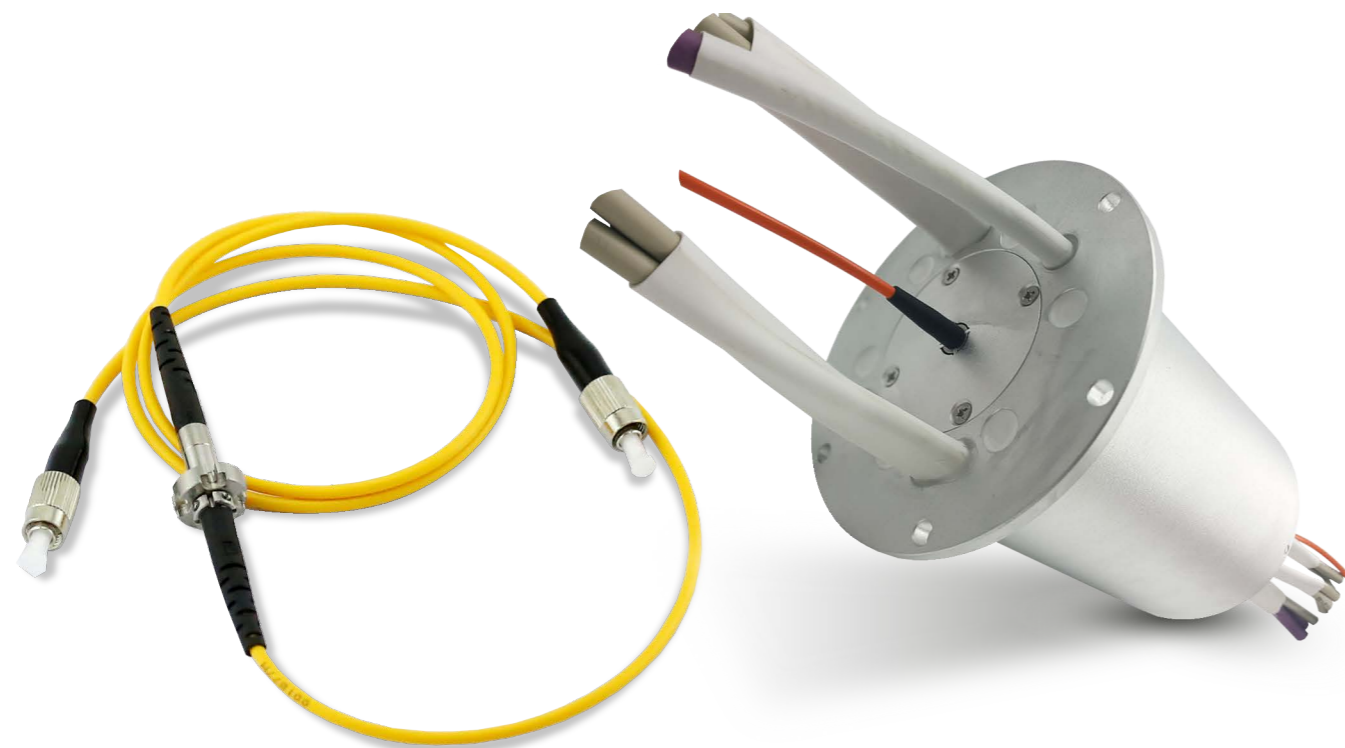


## STAGE TECHNOLOGY

- Rotating Stages
- Rotating Lights
- Revolving Platforms



# RX-LW Series



 Optical Fiber
  Signal & Power
  Long Life
  RoHS2 CE

Hybrid slip rings with fiber optical transmission are also called optical slip rings or fiber optic rotary joint (FORJ). This version adopts optic fiber as media for data transmission with high frequency or large data volume.

The hybrid slip rings with fiber optic are available with 1 up to 8 fiber optical channels and FC, ST, SMA, SC or LC connectors. The fibers are available as singlemode or multimode fibers. Additional to the fiber optical transmission the customer can select 2 up to 72 rings for standard signal or power transmission from 5A to 10A each ring.

We offer standardized & modularized design and fully customizable products according to the special requirements of customers in different applications.

If you have specific customized requirements, please feel free to consult us in order to create the most suitable recommendation for your specification.

## ADVANTAGES

- + 1-8 Fiber Optical Channels
- + No Electrical Noise
- + Long Lifetime
- + High-Speed Data Transmission, Video / Data Transmission
- + Maintenance Free
- + FC, SC, ST, SMA, or LC (PC and APC) Connectors
- + 360° Continuous Rotation

## MAIN APPLICATIONS

- > Satellite Communication Systems
- > Medical Treatment Equipment
- > Radar Antennas
- > Military Systems
- > HD Network Monitoring Systems
- > Air Traffic Control
- > Camera Technology

## PRODUCT CODE

RX	-	AA	BBB	C	-	D	EE	-	F	GG	HH	S
		1	2	3		4	5		6	7	8	9

Example: RX-LW1196-AFC-11002S  
 (1) Fiber Optical Slip Ring with (2) Outer Diameter 119mm, (3) 6 Fiber Channels, (4) Model Housing Type A, (5) FC Connector, (6) Single Mode Fiber Channel, (7) 10 rings for power transmission, (8) 2 rings for signal transmission, (9) Standard Version

1	Series	LW- Hybrid Slip Rings - Fiber Optical + Electric	6	Fiber Type	1 - Single Mode, 9/125um, Wavelength 1310/1550 (default) 2 - Multiple Mode, 50/125um, Wavelength 850/1310 3 - Multiple Mode, 62.5/125um, Wavelength 850/1310
2	Outer Diameter	From 6.7mm to 119mm (see drawings for details)	7	Number of Power Circuits	From 2 rings to 36 rings each 10A
3	Number of Fiber Channels	1 - 8	8	Number of Signal Circuits	From 2 rings to 72 rings each Signal/5A
4	Model	A - Housing Type A B - Housing Type B	9	Version	S - Standard C - Customized
5	Connector Type	FC - FC Connector (default) ST - ST Connector SC - SC Connector LS - LS Connector			

## SPECIFICATIONS

### HYBRID FIBER OPTICAL SLIP RINGS SPECIFICATIONS

NUMBER OF CIRCUITS	2-36 for power transmission	2-72 for signal transmission	1-8 channels for fiber optic transmission
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### FIBER OPTIC SPECIFICATIONS

WAVELENGTH (NM)	±50	CONNECTOR	FC (default), ST, SC, LC
MAX POWER (W)	0.5	CONNECTOR FACE	PC (default), APC on request
		SINGLE MODE	MULTI MODE
FIBER TYPES	9/125um		50/125um or 62.5/125um
WAVELENGTH	1310/1550		850/1310
MAX INSERT LOSS, 23°C (DB)	1 channel: 1.2	2-8 channels: 4	1 channel: 0.7      2-8 channels: 3.5
INSERT LOSS RIPPLE (DB)	1 channel: 0.6	2-8 channels: 2	1 channel: 0.4      2-8 channels: 1
RETURN LOSS (DB)	1 channel: ≥55(No connector)	2-8 channels: ≥50(APC)	1 channel: ≥40 (No connector)      2-8 channels: ≥40(PC)

### ELECTRICAL SPECIFICATIONS

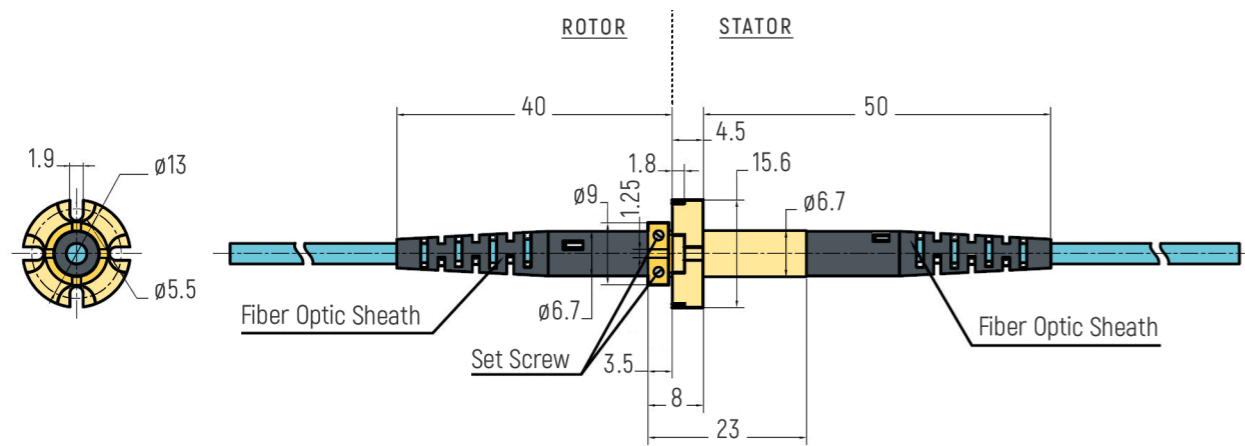
CURRENT RATING	Power transmission circuits: 10A	Signal transmission circuits: 5A
VOLTAGE RATING	440VAC/DC	
ELECTRICAL NOISE	max 10mΩ	
INSULATION RESISTANCE	≥1000 MΩ @ 500 VDC	
LEAD CABLE SIZE	Power transmission circuits: Types LW0251, LW0331, LW0561 and LW0861: AWG22 Teflon	Types LW1192, LW1194, LW1196 and LW1198: AWG16 Teflon
	Signal transmission circuits: AWG22 Teflon	
LEAD CABLE LENGTH	Standard 300mm (Rotor/Stator)	
DIELECTRIC STRENGTH	500VAC @ 50Hz, 60s	

### MECHANICAL SPECIFICATIONS

WORKING LIFE	Types LW0101, LW0071 and LW0131: >5 Billion Revs Types LW0672, LW0512, LW0674, LW0514, LW0676, LW0516, LW0678 and LW0608: 200 Million Revs All other types: 20 Million Revs
ROTATING SPEED	Types LW0101, LW0071 and LW0131: 0-1000 rpm; All other types: 0-250 rpm
TEMPERATURE RANGE	Types LW0251, LW0331, LW0561, LW0861, LW1192, LW1194, LW1196 and LW1198: -30°C to +80°C; All other types: -45°C to +85°C
OPERATING HUMIDITY	0-85% RH
TORQUE	0.1N.m; +0.03N.m/6 rings
CONTACT MATERIAL	Gold-Gold
PROTECTION DEGREE	Types LW0101, LW0071 and LW0131: IP68 (higher or lower on request) All other types: IP51 (higher or lower on request)
HOUSING MATERIAL	Aluminium Alloy

**RX-LW0071**

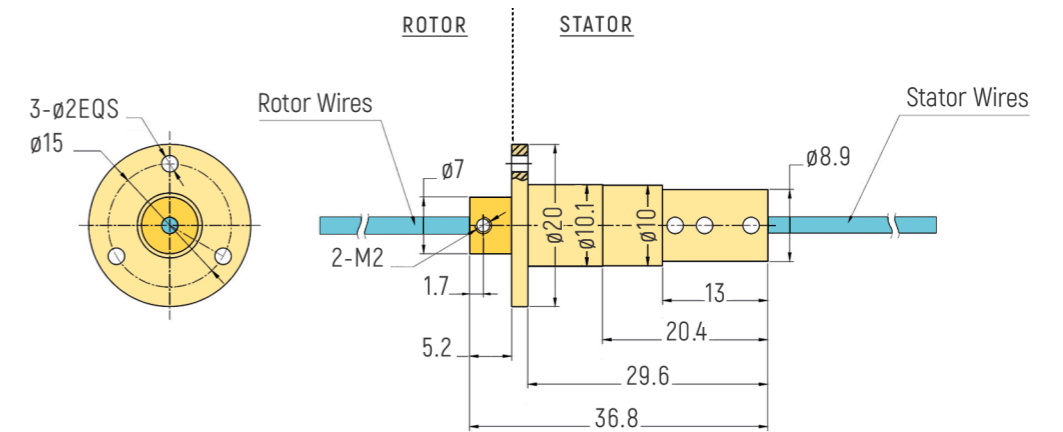
1 Channel



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0071-AFC-10000S	94.5	-	-	1	FC

**RX-LW0101**

1 Channel



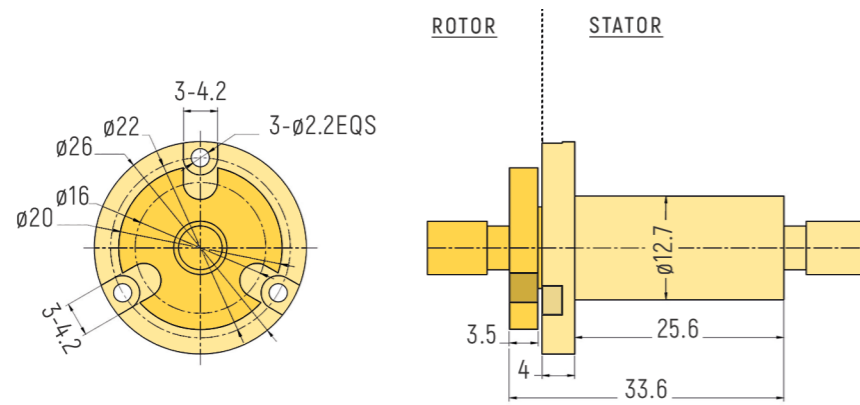
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0101-AFC-10000S	36.8	-	-	1	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

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**RX-LW0131**

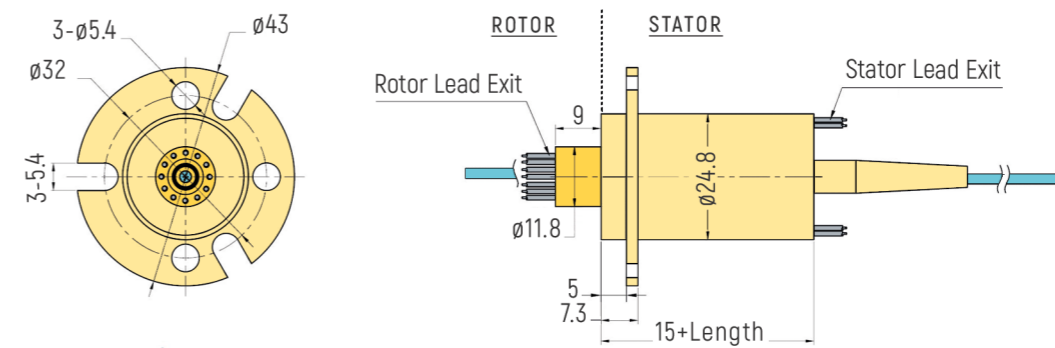
1 Channel



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0131-AFC-10000S	33.6	-	-	1	FC

**RX-LW0251**

1 Channel



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0251-AFC-10006S	25.4	-	6	1	FC
RX-LW0251-AFC-10012S	39.2	-	12	1	FC
RX-LW0251-AFC-10018S	53	-	18	1	FC
RX-LW0251-AFC-10024S	66.8	-	24	1	FC
RX-LW0251-AFC-10030S	80.6	-	30	1	FC

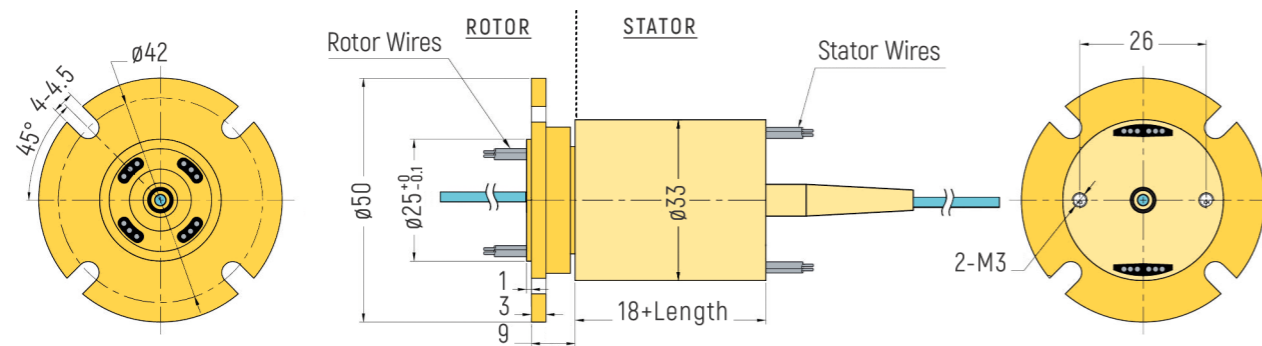
↳ If you have any special requirements, please contact customer service for specific model and customization.

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**RX-LW0331**

1 Channel

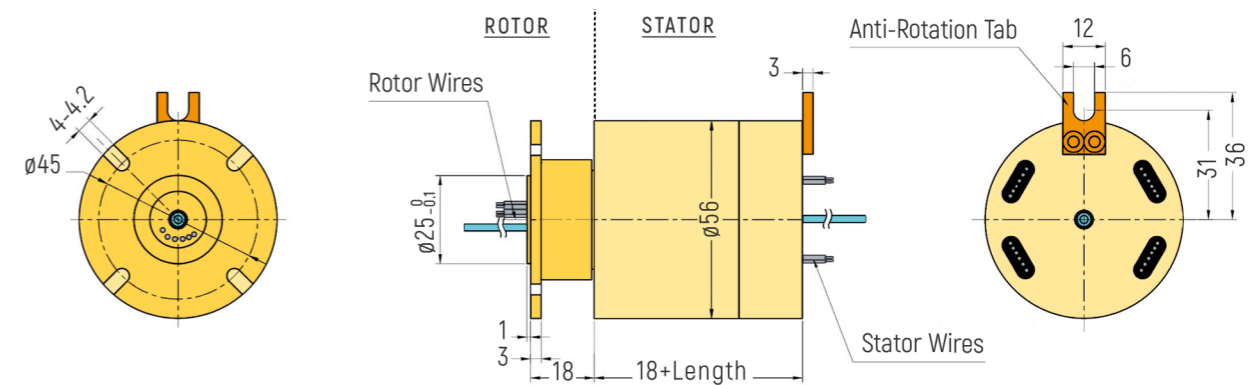


MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0331-AFC-10006S	25.4	-	6	1	FC
RX-LW0331-AFC-10012S	39.2	-	12	1	FC
RX-LW0331-AFC-10018S	53	-	18	1	FC
RX-LW0331-AFC-10024S	66.8	-	24	1	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW0561**

1 Channel

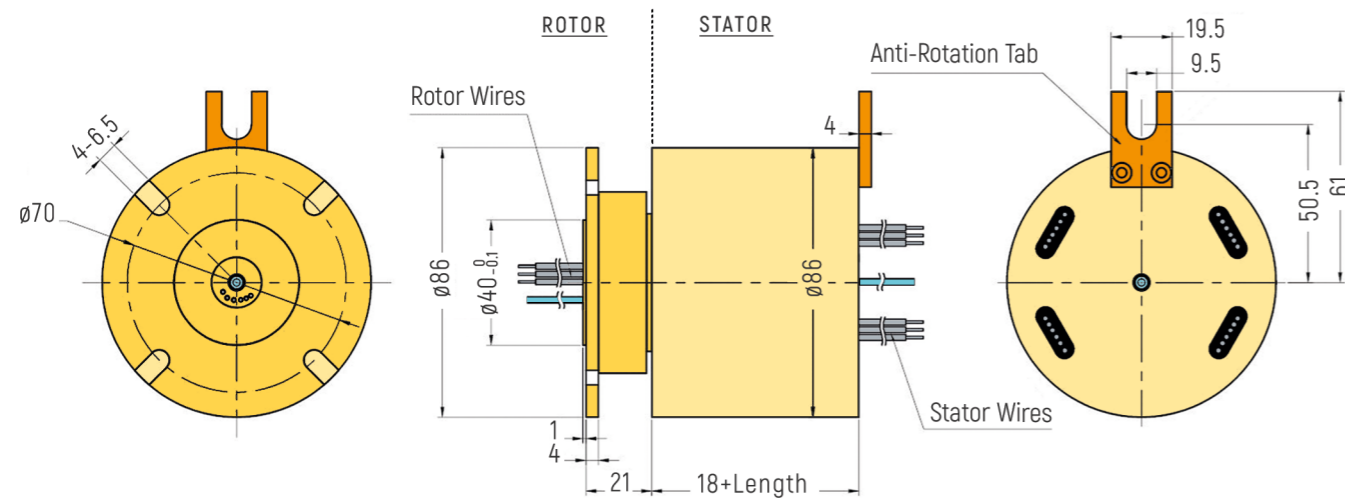


MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0561-AFC-10006S	38	-	6	1	FC
RX-LW0561-AFC-10600S	38	6	-	1	FC
RX-LW0561-AFC-10012S	54.8	-	12	1	FC
RX-LW0561-AFC-11200S	54.8	12	-	1	FC
RX-LW0561-AFC-10606S	54.8	6	6	1	FC
RX-LW0561-AFC-10018S	71.6	-	18	1	FC
RX-LW0561-AFC-11800S	71.6	18	-	1	FC
RX-LW0561-AFC-10024S	88.4	-	24	1	FC
RX-LW0561-AFC-11212S	88.4	12	12	1	FC
RX-LW0561-AFC-10618S	88.4	6	18	1	FC
RX-LW0561-AFC-10030S	105.2	-	30	1	FC
RX-LW0561-AFC-10036S	125	-	36	1	FC
RX-LW0561-AFC-10042S	141.8	-	42	1	FC
RX-LW0561-AFC-10048S	158.6	-	48	1	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW0861**

1 Channel



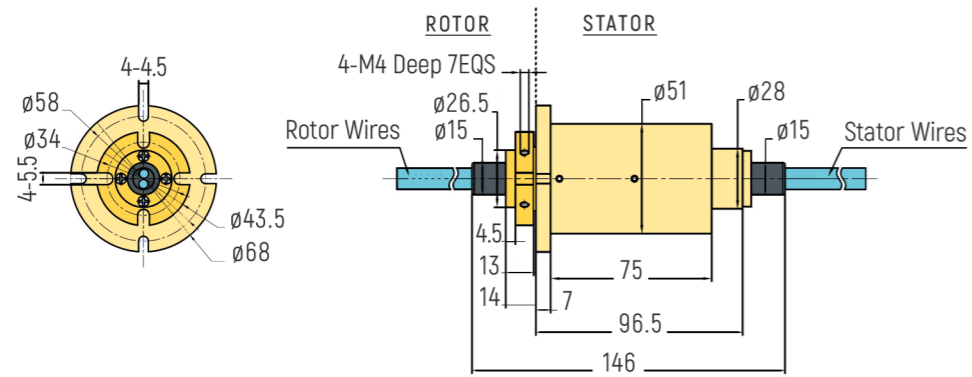
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0861-AFC-10002S	31.6	-	2	1	FC
RX-LW0861-AFC-10200S	31.6	2	-	1	FC
RX-LW0861-AFC-10003S	35	-	3	1	FC
RX-LW0861-AFC-10300S	35	3	-	1	FC
RX-LW0861-AFC-10006S	45.2	-	6	1	FC
RX-LW0861-AFC-10204S	45.2	2	4	1	FC
RX-LW0861-AFC-10402S	45.2	4	2	1	FC
RX-LW0861-AFC-10600S	45.2	6	-	1	FC
RX-LW0861-AFC-10012S	65.6	-	12	1	FC
RX-LW0861-AFC-10210S	65.6	2	10	1	FC
RX-LW0861-AFC-10309S	65.6	3	9	1	FC
RX-LW0861-AFC-10606S	65.6	6	6	1	FC
RX-LW0861-AFC-10804S	65.6	8	4	1	FC
RX-LW0861-AFC-11002S	65.6	10	2	1	FC
RX-LW0861-AFC-11200S	65.6	12	-	1	FC
RX-LW0861-AFC-10018S	86	-	18	1	FC
RX-LW0861-AFC-10216S	86	2	16	1	FC
RX-LW0861-AFC-10414S	86	4	14	1	FC

MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0861-AFC-10612S	86	6	12	1	FC
RX-LW0861-AFC-10810S	86	8	10	1	FC
RX-LW0861-AFC-11008S	86	10	8	1	FC
RX-LW0861-AFC-11206S	86	12	6	1	FC
RX-LW0861-AFC-11404S	86	14	4	1	FC
RX-LW0861-AFC-11602S	86	16	2	1	FC
RX-LW0861-AFC-10024S	106.4	-	24	1	FC
RX-LW0861-AFC-10420S	106.4	4	20	1	FC
RX-LW0861-AFC-10618S	106.4	6	18	1	FC
RX-LW0861-AFC-11212S	106.4	12	12	1	FC
RX-LW0861-AFC-11806S	106.4	18	6	1	FC
RX-LW0861-AFC-12400S	106.4	24	-	1	FC
RX-LW0861-AFC-10030S	126.8	-	30	1	FC
RX-LW0861-AFC-10624S	126.8	6	24	1	FC
RX-LW0861-AFC-11218S	126.8	12	18	1	FC
RX-LW0861-AFC-11812S	126.8	18	12	1	FC
RX-LW0861-AFC-12406S	126.8	24	6	1	FC
RX-LW0861-AFC-13000S	126.8	30	-	1	FC
RX-LW0861-AFC-10036S	147.2	-	36	1	FC
RX-LW0861-AFC-10630S	147.2	6	30	1	FC
RX-LW0861-AFC-11224S	147.2	12	24	1	FC
RX-LW0861-AFC-13600S	147.2	36	-	1	FC
RX-LW0861-AFC-10042S	167.6	-	42	1	FC
RX-LW0861-AFC-10636S	167.6	6	36	1	FC
RX-LW0861-AFC-11230S	167.6	12	30	1	FC
RX-LW0861-AFC-10048S	188	-	48	1	FC
RX-LW0861-AFC-10642S	188	6	42	1	FC
RX-LW0861-AFC-10939S	188	9	39	1	FC
RX-LW0861-AFC-11236S	188	12	36	1	FC
RX-LW0861-AFC-11830S	188	18	30	1	FC
RX-LW0861-AFC-12424S	188	24	24	1	FC
RX-LW0861-AFC-10060S	238.8	-	60	1	FC
RX-LW0861-AFC-10654S	238.8	6	54	1	FC
RX-LW0861-AFC-10951S	238.8	9	51	1	FC
RX-LW0861-AFC-11248S	238.8	12	48	1	FC
RX-LW0861-AFC-10072S	289.6	-	72	1	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW0512**

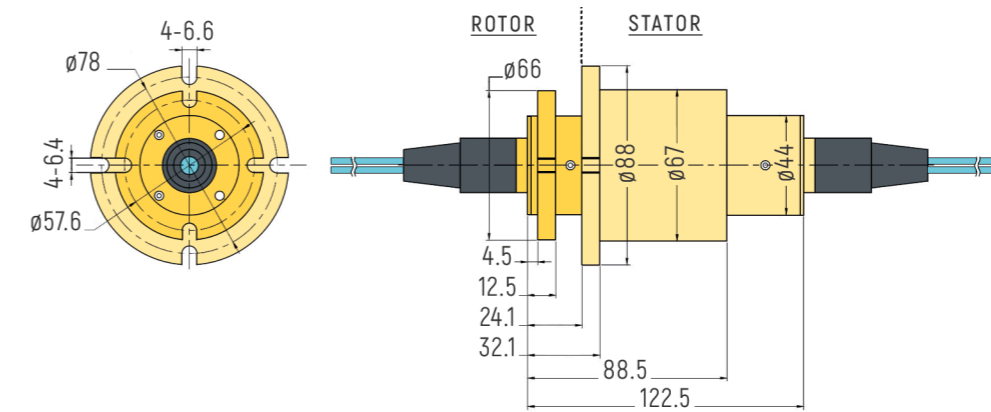
2 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0512-AFC-10000S	146	-	-	2	FC

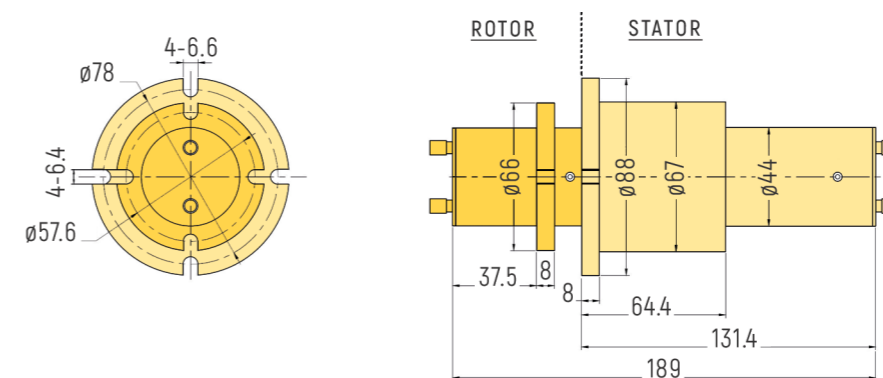
**RX-LW0672-A**

2 Channels



**RX-LW0672-B**

2 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0672-AFC-10000S	122.5	-	-	2	FC
RX-LW0672-BFC-10000S	189	-	-	2	FC

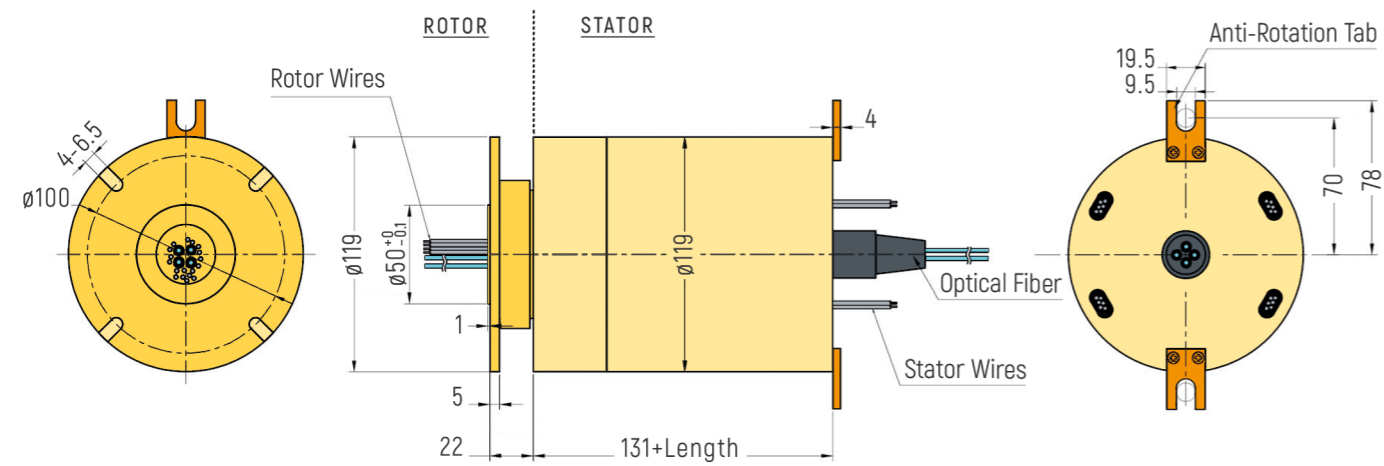
↳ If you have any special requirements, please contact customer service for specific model and customization.

↳ If you have any special requirements, please contact customer service for specific model and customization.



**RX-LW1192**

2 Channels



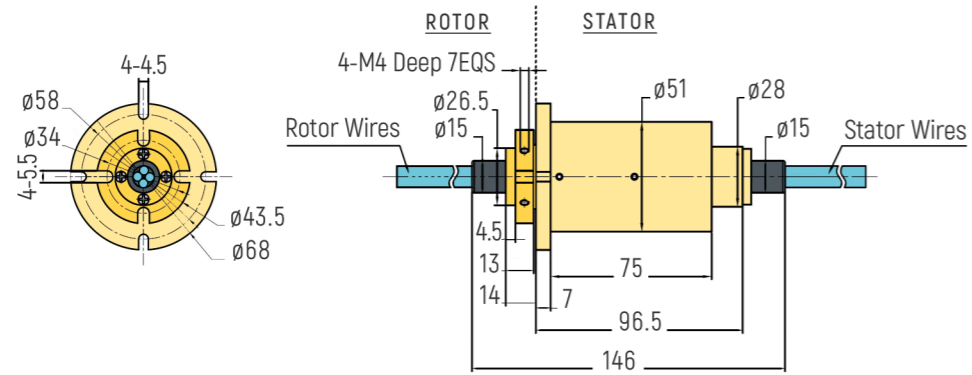
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1192-AFC-10002S	31.6	-	2	2	FC
RX-LW1192-AFC-10200S	31.6	2	-	2	FC
RX-LW1192-AFC-10003S	35	-	3	2	FC
RX-LW1192-AFC-10300S	35	3	-	2	FC
RX-LW1192-AFC-10006S	45.2	-	6	2	FC
RX-LW1192-AFC-10204S	45.2	2	4	2	FC
RX-LW1192-AFC-10402S	45.2	4	2	2	FC
RX-LW1192-AFC-10600S	45.2	6	-	2	FC
RX-LW1192-AFC-10012S	65.6	-	12	2	FC
RX-LW1192-AFC-10210S	65.6	2	10	2	FC
RX-LW1192-AFC-10309S	65.6	3	9	2	FC
RX-LW1192-AFC-10606S	65.6	6	6	2	FC
RX-LW1192-AFC-10804S	65.6	8	4	2	FC
RX-LW1192-AFC-11002S	65.6	10	2	2	FC
RX-LW1192-AFC-11200S	65.6	12	-	2	FC
RX-LW1192-AFC-10018S	86	-	18	2	FC
RX-LW1192-AFC-10216S	86	2	16	2	FC
RX-LW1192-AFC-10414S	86	4	14	2	FC

MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1192-AFC-10612S	86	6	12	2	FC
RX-LW1192-AFC-10810S	86	8	10	2	FC
RX-LW1192-AFC-11008S	86	10	8	2	FC
RX-LW1192-AFC-11206S	86	12	6	2	FC
RX-LW1192-AFC-11404S	86	14	4	2	FC
RX-LW1192-AFC-11602S	86	16	2	2	FC
RX-LW1192-AFC-10024S	106.4	-	24	2	FC
RX-LW1192-AFC-10420S	106.4	4	20	2	FC
RX-LW1192-AFC-10618S	106.4	6	18	2	FC
RX-LW1192-AFC-11212S	106.4	12	12	2	FC
RX-LW1192-AFC-11806S	106.4	18	6	2	FC
RX-LW1192-AFC-12400S	106.4	24	-	2	FC
RX-LW1192-AFC-10030S	126.8	-	30	2	FC
RX-LW1192-AFC-10624S	126.8	6	24	2	FC
RX-LW1192-AFC-11218S	126.8	12	18	2	FC
RX-LW1192-AFC-11812S	126.8	18	12	2	FC
RX-LW1192-AFC-12406S	126.8	24	6	2	FC
RX-LW1192-AFC-13000S	126.8	30	-	2	FC
RX-LW1192-AFC-10036S	147.2	-	36	2	FC
RX-LW1192-AFC-10630S	147.2	6	30	2	FC
RX-LW1192-AFC-11224S	147.2	12	24	2	FC
RX-LW1192-AFC-13600S	147.2	36	-	2	FC
RX-LW1192-AFC-10042S	167.6	-	42	2	FC
RX-LW1192-AFC-10636S	167.6	6	36	2	FC
RX-LW1192-AFC-11230S	167.6	12	30	2	FC
RX-LW1192-AFC-10048S	188	-	48	2	FC
RX-LW1192-AFC-10642S	188	6	42	2	FC
RX-LW1192-AFC-10939S	188	9	39	2	FC
RX-LW1192-AFC-11236S	188	12	36	2	FC
RX-LW1192-AFC-11830S	188	18	30	2	FC
RX-LW1192-AFC-12424S	188	24	24	2	FC
RX-LW1192-AFC-10060S	238.8	-	60	2	FC
RX-LW1192-AFC-10654S	238.8	6	54	2	FC
RX-LW1192-AFC-10951S	238.8	9	51	2	FC
RX-LW1192-AFC-11248S	238.8	12	48	2	FC
RX-LW1192-AFC-10072S	289.6	-	72	2	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

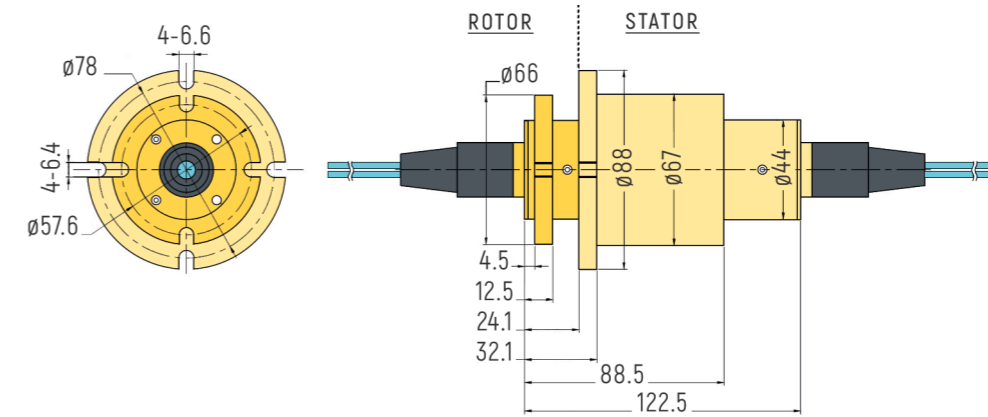
**RX-LW0514**

4 Channels



**RX-LW0674-A**

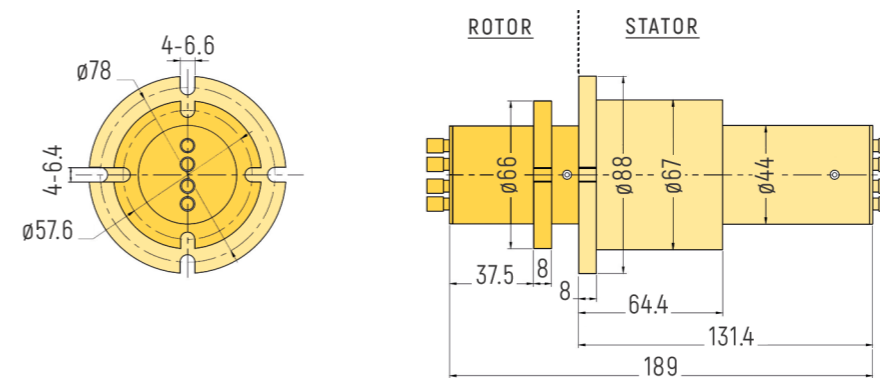
4 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0514-AFC-10000S	146	-	-	4	FC

**RX-LW0674-B**

4 Channels



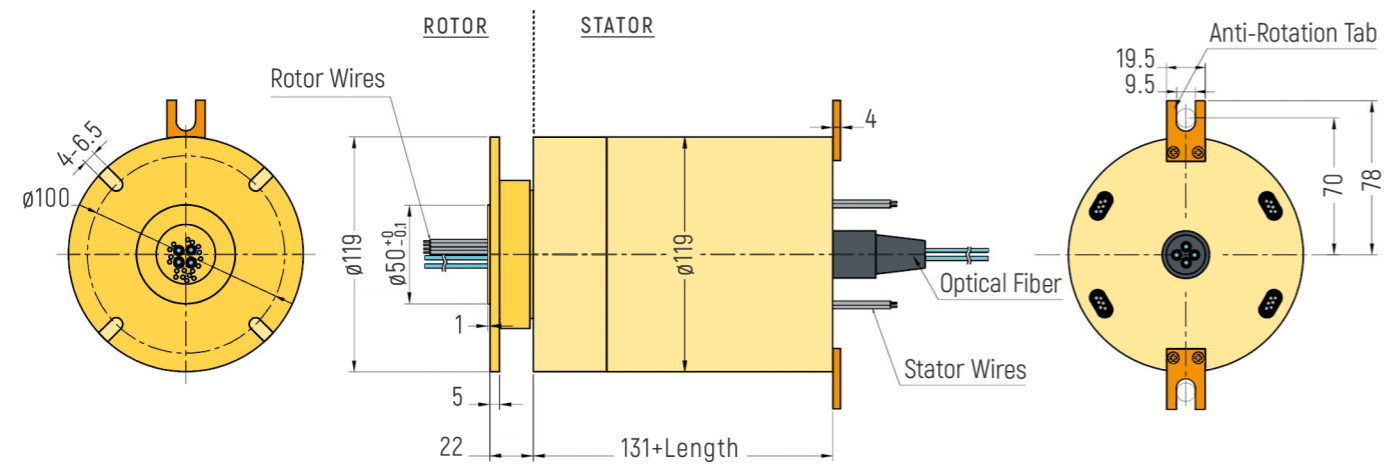
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0674-AFC-10000S	122.5	-	-	4	FC
RX-LW0674-BFC-10000S	189	-	-	4	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW1194**

4 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1194-AFC-10002S	31.6	-	2	4	FC
RX-LW1194-AFC-10200S	31.6	2	-	4	FC
RX-LW1194-AFC-10003S	35	-	3	4	FC
RX-LW1194-AFC-10300S	35	3	-	4	FC
RX-LW1194-AFC-10006S	45.2	-	6	4	FC
RX-LW1194-AFC-10204S	45.2	2	4	4	FC
RX-LW1194-AFC-10402S	45.2	4	2	4	FC
RX-LW1194-AFC-10600S	45.2	6	-	4	FC
RX-LW1194-AFC-10012S	65.6	-	12	4	FC
RX-LW1194-AFC-10210S	65.6	2	10	4	FC
RX-LW1194-AFC-10309S	65.6	3	9	4	FC
RX-LW1194-AFC-10606S	65.6	6	6	4	FC
RX-LW1194-AFC-10804S	65.6	8	4	4	FC
RX-LW1194-AFC-11002S	65.6	10	2	4	FC
RX-LW1194-AFC-11200S	65.6	12	-	4	FC
RX-LW1194-AFC-10018S	86	-	18	4	FC
RX-LW1194-AFC-10216S	86	2	16	4	FC
RX-LW1194-AFC-10414S	86	4	14	4	FC

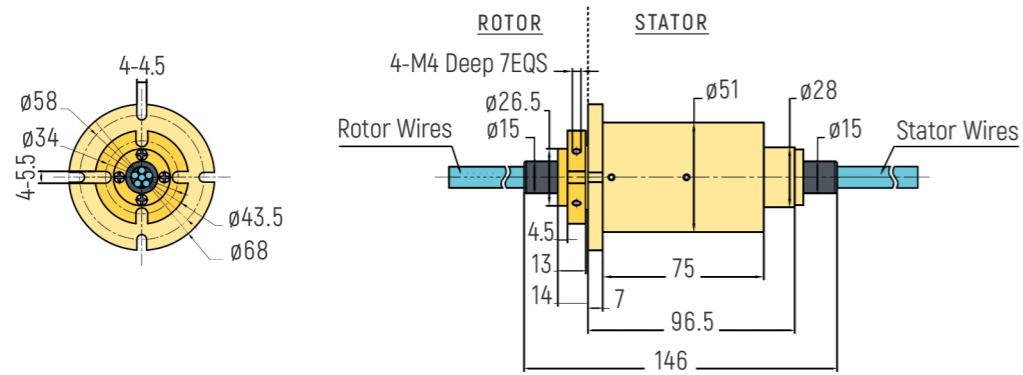
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1194-AFC-10612S	86	6	12	4	FC
RX-LW1194-AFC-10810S	86	8	10	4	FC
RX-LW1194-AFC-11008S	86	10	8	4	FC
RX-LW1194-AFC-11206S	86	12	6	4	FC
RX-LW1194-AFC-11404S	86	14	4	4	FC
RX-LW1194-AFC-11602S	86	16	2	4	FC
RX-LW1194-AFC-10024S	106.4	-	24	4	FC
RX-LW1194-AFC-10420S	106.4	4	20	4	FC
RX-LW1194-AFC-10618S	106.4	6	18	4	FC
RX-LW1194-AFC-11212S	106.4	12	12	4	FC
RX-LW1194-AFC-11806S	106.4	18	6	4	FC
RX-LW1194-AFC-12400S	106.4	24	-	4	FC
RX-LW1194-AFC-10030S	126.8	-	30	4	FC
RX-LW1194-AFC-10624S	126.8	6	24	4	FC
RX-LW1194-AFC-11218S	126.8	12	18	4	FC
RX-LW1194-AFC-11812S	126.8	18	12	4	FC
RX-LW1194-AFC-12406S	126.8	24	6	4	FC
RX-LW1194-AFC-13000S	126.8	30	-	4	FC
RX-LW1194-AFC-10036S	147.2	-	36	4	FC
RX-LW1194-AFC-10630S	147.2	6	30	4	FC
RX-LW1194-AFC-11224S	147.2	12	24	4	FC
RX-LW1194-AFC-13600S	147.2	36	-	4	FC
RX-LW1194-AFC-10042S	167.6	-	42	4	FC
RX-LW1194-AFC-10636S	167.6	6	36	4	FC
RX-LW1194-AFC-11230S	167.6	12	30	4	FC
RX-LW1194-AFC-10048S	188	-	48	4	FC
RX-LW1194-AFC-10642S	188	6	42	4	FC
RX-LW1194-AFC-10939S	188	9	39	4	FC
RX-LW1194-AFC-11236S	188	12	36	4	FC
RX-LW1194-AFC-11830S	188	18	30	4	FC
RX-LW1194-AFC-12424S	188	24	24	4	FC
RX-LW1194-AFC-10060S	238.8	-	60	4	FC
RX-LW1194-AFC-10654S	238.8	6	54	4	FC
RX-LW1194-AFC-10951S	238.8	9	51	4	FC
RX-LW1194-AFC-11248S	238.8	12	48	4	FC
RX-LW1194-AFC-10072S	289.6	-	72	4	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.



**RX-LW0516**

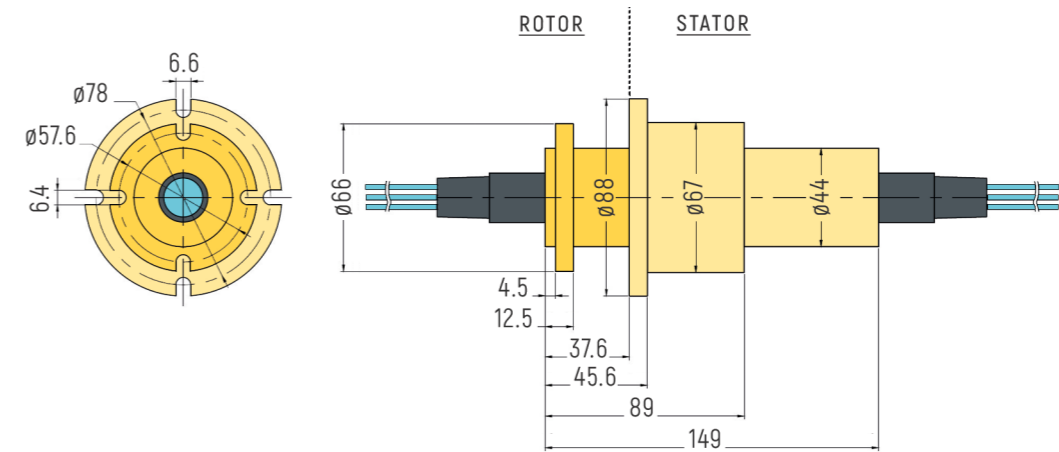
6 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0516-AFC-10000S	146	-	-	6	FC

**RX-LW0676**

6 Channels



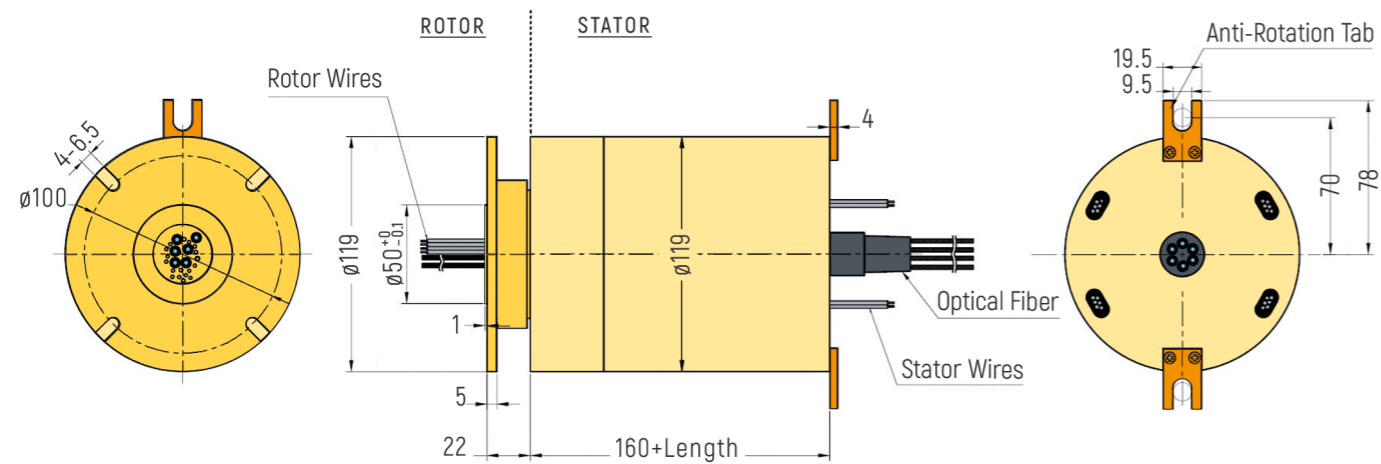
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0676-AFC-10000S	149	-	-	6	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW1196**

6 Channels



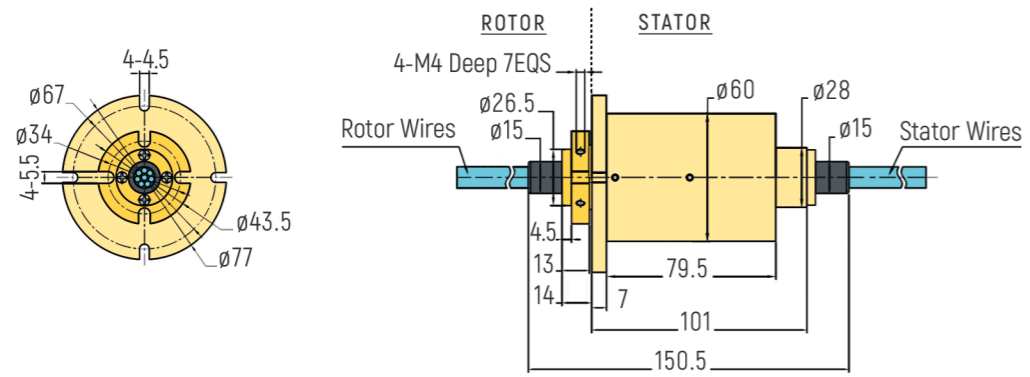
MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1196-AFC-10002S	31.6	-	2	6	FC
RX-LW1196-AFC-10200S	31.6	2	-	6	FC
RX-LW1196-AFC-10003S	35	-	3	6	FC
RX-LW1196-AFC-10300S	35	3	-	6	FC
RX-LW1196-AFC-10006S	45.2	-	6	6	FC
RX-LW1196-AFC-10204S	45.2	2	4	6	FC
RX-LW1196-AFC-10402S	45.2	4	2	6	FC
RX-LW1196-AFC-10600S	45.2	6	-	6	FC
RX-LW1196-AFC-10012S	65.6	-	12	6	FC
RX-LW1196-AFC-10210S	65.6	2	10	6	FC
RX-LW1196-AFC-10309S	65.6	3	9	6	FC
RX-LW1196-AFC-10606S	65.6	6	6	6	FC
RX-LW1196-AFC-10804S	65.6	8	4	6	FC
RX-LW1196-AFC-11002S	65.6	10	2	6	FC
RX-LW1196-AFC-11200S	65.6	12	-	6	FC
RX-LW1196-AFC-10018S	86	-	18	6	FC
RX-LW1196-AFC-10216S	86	2	16	6	FC
RX-LW1196-AFC-10414S	86	4	14	6	FC

MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1196-AFC-10612S	86	6	12	6	FC
RX-LW1196-AFC-10810S	86	8	10	6	FC
RX-LW1196-AFC-11008S	86	10	8	6	FC
RX-LW1196-AFC-11206S	86	12	6	6	FC
RX-LW1196-AFC-11404S	86	14	4	6	FC
RX-LW1196-AFC-11602S	86	16	2	6	FC
RX-LW1196-AFC-10024S	106.4	-	24	6	FC
RX-LW1196-AFC-10420S	106.4	4	20	6	FC
RX-LW1196-AFC-10618S	106.4	6	18	6	FC
RX-LW1196-AFC-11212S	106.4	12	12	6	FC
RX-LW1196-AFC-11806S	106.4	18	6	6	FC
RX-LW1196-AFC-12400S	106.4	24	-	6	FC
RX-LW1196-AFC-10030S	126.8	-	30	6	FC
RX-LW1196-AFC-10624S	126.8	6	24	6	FC
RX-LW1196-AFC-11218S	126.8	12	18	6	FC
RX-LW1196-AFC-11812S	126.8	18	12	6	FC
RX-LW1196-AFC-12406S	126.8	24	6	6	FC
RX-LW1196-AFC-13000S	126.8	30	-	6	FC
RX-LW1196-AFC-10036S	147.2	-	36	6	FC
RX-LW1196-AFC-10630S	147.2	6	30	6	FC
RX-LW1196-AFC-11224S	147.2	12	24	6	FC
RX-LW1196-AFC-13600S	147.2	36	-	6	FC
RX-LW1196-AFC-10042S	167.6	-	42	6	FC
RX-LW1196-AFC-10636S	167.6	6	36	6	FC
RX-LW1196-AFC-11230S	167.6	12	30	6	FC
RX-LW1196-AFC-10048S	188	-	48	6	FC
RX-LW1196-AFC-10642S	188	6	42	6	FC
RX-LW1196-AFC-10939S	188	9	39	6	FC
RX-LW1196-AFC-11236S	188	12	36	6	FC
RX-LW1196-AFC-11830S	188	18	30	6	FC
RX-LW1196-AFC-12424S	188	24	24	6	FC
RX-LW1196-AFC-10060S	238.8	-	60	6	FC
RX-LW1196-AFC-10654S	238.8	6	54	6	FC
RX-LW1196-AFC-10951S	238.8	9	51	6	FC
RX-LW1196-AFC-11248S	238.8	12	48	6	FC
RX-LW1196-AFC-10072S	289.6	-	72	6	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

**RX-LW0608**

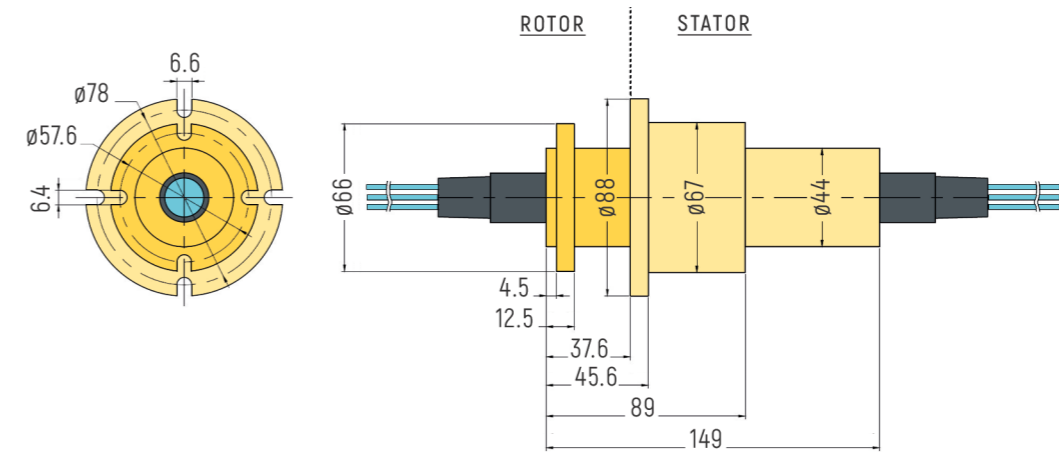
8 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0608-AFC-10000S	150.5	-	-	8	FC

**RX-LW0678**

8 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW0678-AFC-10000S	149	-	-	8	FC

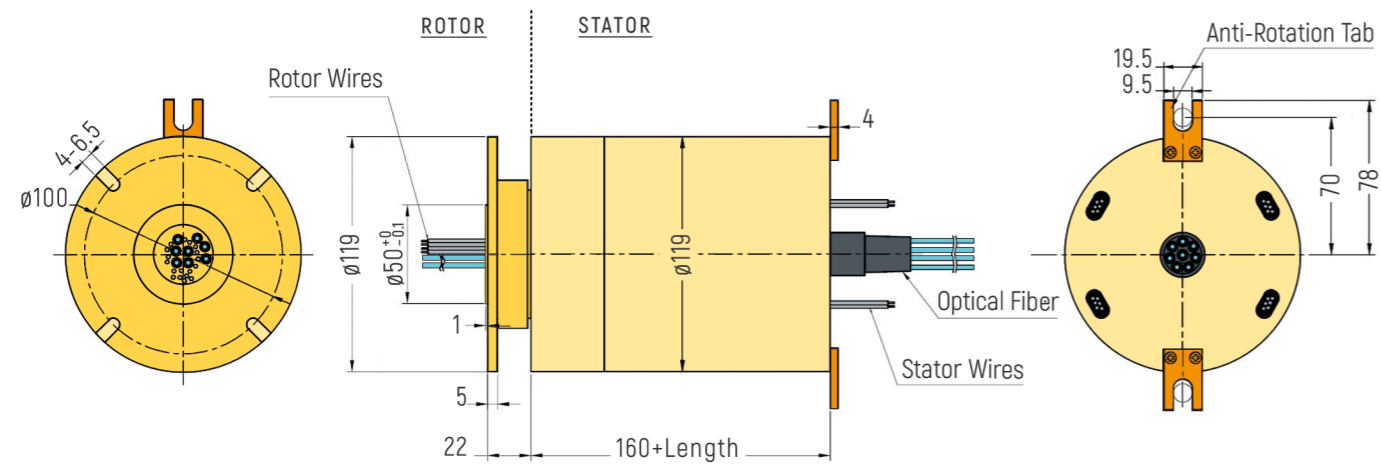
↳ If you have any special requirements, please contact customer service for specific model and customization.

↳ If you have any special requirements, please contact customer service for specific model and customization.



**RX-LW1198**

8 Channels



MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1198-AFC-10002S	31.6	-	2	8	FC
RX-LW1198-AFC-10200S	31.6	2	-	8	FC
RX-LW1198-AFC-10003S	35	-	3	8	FC
RX-LW1198-AFC-10300S	35	3	-	8	FC
RX-LW1198-AFC-10006S	45.2	-	6	8	FC
RX-LW1198-AFC-10204S	45.2	2	4	8	FC
RX-LW1198-AFC-10402S	45.2	4	2	8	FC
RX-LW1198-AFC-10600S	45.2	6	-	8	FC
RX-LW1198-AFC-10012S	65.6	-	12	8	FC
RX-LW1198-AFC-10210S	65.6	2	10	8	FC
RX-LW1198-AFC-10309S	65.6	3	9	8	FC
RX-LW1198-AFC-10606S	65.6	6	6	8	FC
RX-LW1198-AFC-10804S	65.6	8	4	8	FC
RX-LW1198-AFC-11002S	65.6	10	2	8	FC
RX-LW1198-AFC-11200S	65.6	12	-	8	FC
RX-LW1198-AFC-10018S	86	-	18	8	FC
RX-LW1198-AFC-10216S	86	2	16	8	FC
RX-LW1198-AFC-10414S	86	4	14	8	FC

MODEL	LENGTH (mm)	NUMBER OF CIRCUITS		CHANNEL	CONNECTORS
		10A	Signal / 5A		
RX-LW1198-AFC-10612S	86	6	12	8	FC
RX-LW1198-AFC-10810S	86	8	10	8	FC
RX-LW1198-AFC-11008S	86	10	8	8	FC
RX-LW1198-AFC-11206S	86	12	6	8	FC
RX-LW1198-AFC-11404S	86	14	4	8	FC
RX-LW1198-AFC-11602S	86	16	2	8	FC
RX-LW1198-AFC-10024S	106.4	-	24	8	FC
RX-LW1198-AFC-10420S	106.4	4	20	8	FC
RX-LW1198-AFC-10618S	106.4	6	18	8	FC
RX-LW1198-AFC-11212S	106.4	12	12	8	FC
RX-LW1198-AFC-11806S	106.4	18	6	8	FC
RX-LW1198-AFC-12400S	106.4	24	-	8	FC
RX-LW1198-AFC-10030S	126.8	-	30	8	FC
RX-LW1198-AFC-10624S	126.8	6	24	8	FC
RX-LW1198-AFC-11218S	126.8	12	18	8	FC
RX-LW1198-AFC-11812S	126.8	18	12	8	FC
RX-LW1198-AFC-12406S	126.8	24	6	8	FC
RX-LW1198-AFC-13000S	126.8	30	-	8	FC
RX-LW1198-AFC-10036S	147.2	-	36	8	FC
RX-LW1198-AFC-10630S	147.2	6	30	8	FC
RX-LW1198-AFC-11224S	147.2	12	24	8	FC
RX-LW1198-AFC-13600S	147.2	36	-	8	FC
RX-LW1198-AFC-10042S	167.6	-	42	8	FC
RX-LW1198-AFC-10636S	167.6	6	36	8	FC
RX-LW1198-AFC-11230S	167.6	12	30	8	FC
RX-LW1198-AFC-10048S	188	-	48	8	FC
RX-LW1198-AFC-10642S	188	6	42	8	FC
RX-LW1198-AFC-10939S	188	9	39	8	FC
RX-LW1198-AFC-11236S	188	12	36	8	FC
RX-LW1198-AFC-11830S	188	18	30	8	FC
RX-LW1198-AFC-12424S	188	24	24	8	FC
RX-LW1198-AFC-10060S	238.8	-	60	8	FC
RX-LW1198-AFC-10654S	238.8	6	54	8	FC
RX-LW1198-AFC-10951S	238.8	9	51	8	FC
RX-LW1198-AFC-11248S	238.8	12	48	8	FC
RX-LW1198-AFC-10072S	289.6	-	72	8	FC

↳ If you have any special requirements, please contact customer service for specific model and customization.

# Customized Slip Rings



## HYBRID SLIP RING FOR WATER, POWER AND SIGNAL TRANSMISSION

- 12 x 10A power, 1 x gigabit Ethernet, 1 x water leadthrough
- Harting connector for power lines
- Housing material aluminium

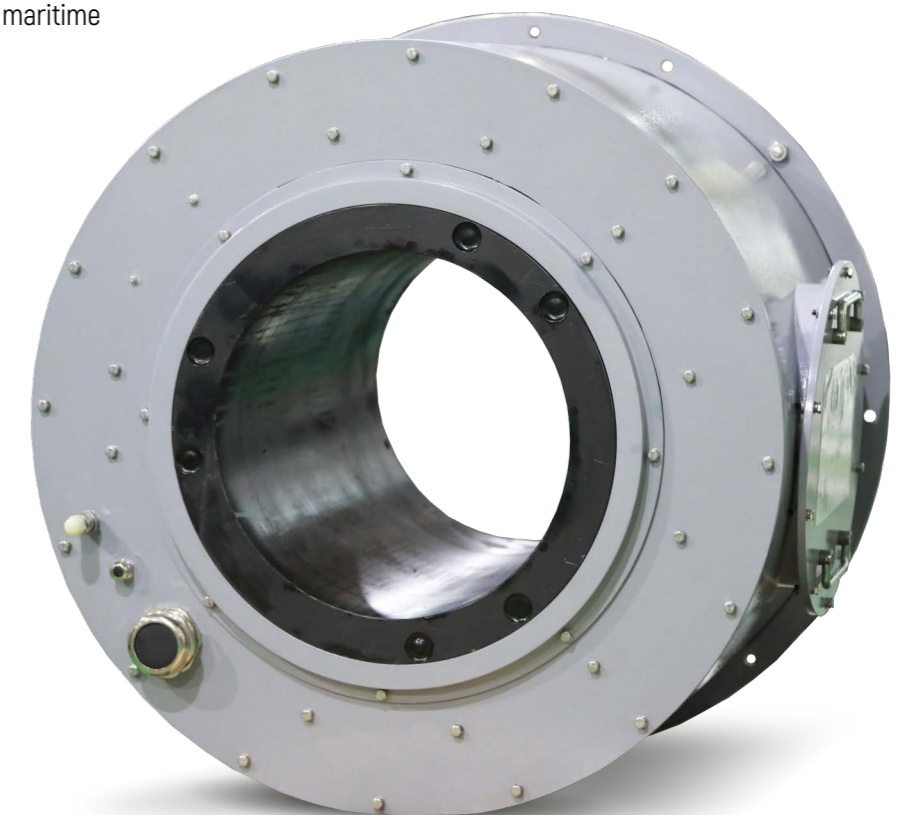


## MEDIUM SIZE SLIP RING WITH MASSIVE FLANGE

- Axial cable outtake rotor, radial cable outtake stator
- Steel housing in customized color
- Special cable protection sleeve

## LARGE SLIP RING FOR MARITIME APPLICATIONS

- Outer diameter 14 meters, inner diameter 0.7 meters
- Housing material steel, color similar to maritime vessel
- Inspection porthole



## MINIATURE METAL HOUSING WITH ELONGATED ROTOR SHAPE

- Special rotor design acc. to customer specification
- 4 x 2A signal rings
- Protection degree IP65



## MEDIUM SIZE SLIP RING WITH MASSIVE FLANGE

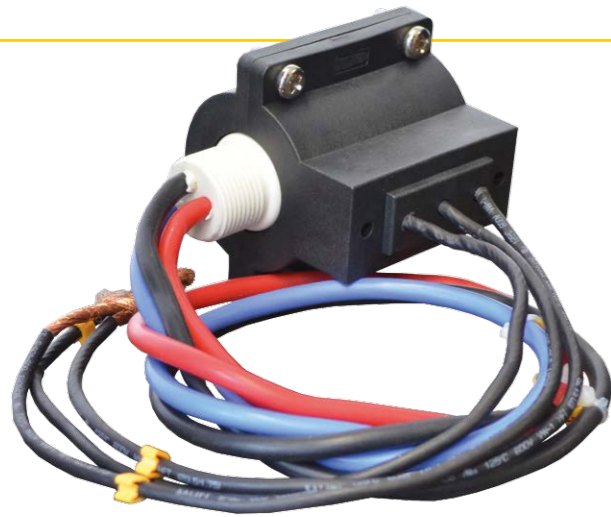
- Aluminium rotor flange with customized boreholes
- Flange thickness 13mm
- Protection degree IP65



## HYBRID MEDIUM SIZE HOLLOW-SHAFT SLIP RING

- 10 x 10A signal transmission + EtherCat signals
- Massive housing for heavy-duty-applications
- Special flange and double-anti-rotation-tabs



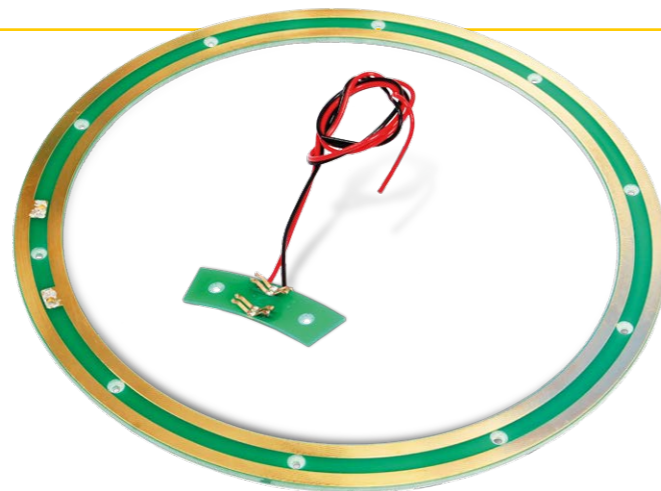


**MINIATURE POWER SLIP RING WITH CUSTOMIZED HOUSING**

- 3 x 63A power transmission on minimum space
- Special plastic housing
- Cable color code according to customer requirement

**PANCAKE SLIP RING WITHOUT HOUSING**

- Special diameter according to customer machine
- 2 rings for power transmission
- Brushholder with customized fixing holes and cable



**HYBRID MEDIUM SIZE SLIP RING WITH FIBER OPTIC AND COAX TRANSMISSION**

- Customized housing shape with special rotor design
- Gearwheel teeth shape integrated in rotor design
- FORJ Fiber Optic + COAX transmission



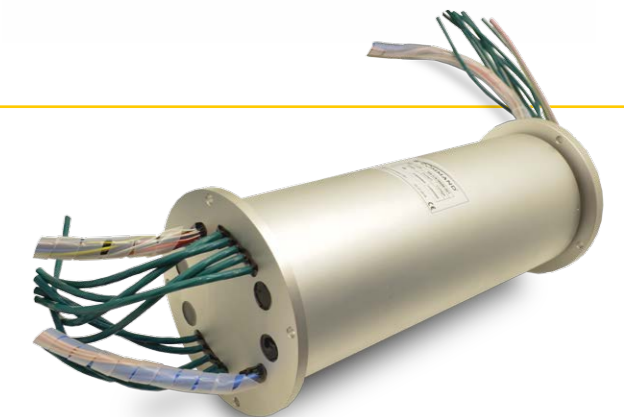
**MINIATURE SLIP RING WITH CUSTOMIZED FLANGE**

- 10 x 2A signal transmission
- Flange position and shape customized
- Cable color code according to customer requirement



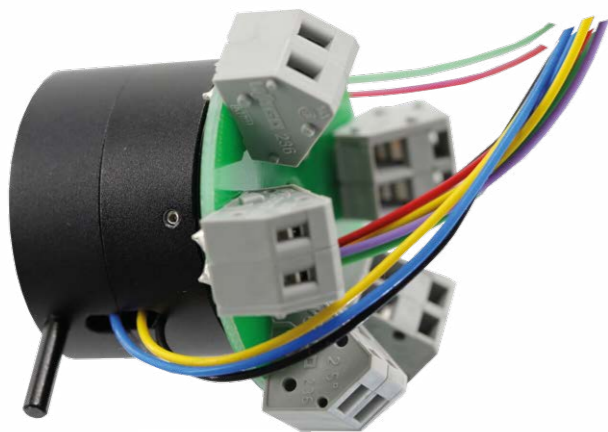
**LARGE METAL HOUSING WITH POWER / DATA TRANSMISSION**

- Dimensions housing according to customer specification
- 86 Rings (63A, 32A, 16A, HD-SDI, EtherCat, Analogue)
- Special CAT7E data-cable with 10 meter length



**MINIATURE SIZE SLIP RING WAGO CONNECTORS ON PCB**

- 16 x 2A signal transmission
- Customized PCB with WAGO connectors for cable connection
- Special housing design with anti-rotation-bar



**MINIATURE SLIP RING WITH 128 RINGS**

- Aluminium housing with rotor flange
- 128 signal rings for data transmission
- Protection degree IP65







**SLIP RING WITH INTEGRATED CONNECTORS**

- Customized fixation boreholes
- Customized connectors and cable with connectors
- Double anti-rotation-tab on stator side

**MEDIUM SIZE HOLLOW-SHAFT SLIP RING WITH CONNECTORS**

- 4 x customized connectors for signal transmission
- Aluminium housing with 150mm free inner diameter
- Housing without flange, axial cable outtakes



**HYBRID MEDIUM SIZE SLIP RING WITH DOUBLE COAX LINE AND POWER TRANSMISSION**

- Customized metal housing without flange
- 2 x COAX lines + several power rings
- Special cable protection sleeve and cable fixation

**HYBRID MEDIUM SIZE SLIP RING WITH FIBER OPTIC AND POWER LINES**

- Customized aluminium housing without flange
- FORJ Fiber Optic + power transmission
- Stainless steel rotor with cable protection sleeve



**HYBRID MINIATURE SLIP RING FOR VIRTUAL REALITY APPLICATIONS**

- Plastic housing with customized flange
- Power and data transmission by USB and HDMI
- Connectors on rotor and stator side for easy usage









**B-COMMAND GMBH**

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