



Industrial Fieldbus Slip Rings



● Features

These slip rings are designed for seamless integration with a broad range of Fieldbus protocols, such as:

- ◉ Fieldbus Systems: ProPbus-DP, CAN/CANopen, DeviceNet, RS422/RS485, Modbus, WorldFIP, LonWorks, HART, InterBus, ControlNet, CC-Link, EtherCAT
- ◉ Industrial Ethernet: EtherCAT, ProPnet, EtherNet/IP, Modbus TCP, Sercos III, Powerlink

● Industrial Fieldbus Slip Rings – Reliable Transmission for Automation

JINPAT Fieldbus slip rings support various protocols, including ProPbus-DP, CANopen, EtherCAT, ProPnet, Modbus, RS485, and Industrial Ethernet. Featuring shielded wiring and isolated channels, they guarantee low noise, no packet loss, and stable performance.

The modular design enables customized combinations of power, signal, encoder, and Fieldbus channels, making them perfect for servo systems, controllers, laser machines, wind turbines, and rotating platforms in demanding industrial environments.

● Typical Applications Include:

- ◉ Imaging systems
- ◉ Lithium battery production lines and precision laser systems
- ◉ Wind turbine blade control
- ◉ Rotating medical scanners
- ◉ Fieldbus communication between encoders
- ◉ Servo motors and controllers in industrial automation systems

● Selection table

Profibus Slip Rings

Typical Model	Circuits	Inner Diameter (mm)	Profibus channels	Other signal channel		Voltage	Size		Compatible with both signal types	
				Special signals	Normal signals		Outer Diameter	Length	Special signals (U2, U3, SDI, E2, E3, HD-SDI)	Standard signals (CAN/CANbus, Profibus, RS422/485, CC-Link, DeviceNet, etc.)
LPC-24-02E2-01E3	24	0	1	3	/	0~380AC/DCV	Φ22	49.8	E2,E3	/
LPC-56A-02S-04E3	56	0	2	/	/	0~380AC/DCV	Φ25	85.7	E3	/
LPT038-0406-08S	4	Φ 38.1mm	3	/	5	220VAC/24VAC	Φ105	124	/	/
LPT120-0510-2403-02S	5*10A /24*3A	Φ 120mm	1	/	/	0~380AC/DCV	Φ212	211.5	/	/

Model numbers decode key specs: For example, "LPT038-0406-08S-2E4" breaks down as LPT (Through-bore type), 38mm inner diameter, 8 industrial bus signal channels, and 2 10 Gigabit Ethernet channels (E4=10G; E2=100M, E3=1G).

CC-Link Slip Rings

Typical Model	Circuits	Inner Diameter (mm)	Profibus channels	Other signal channel		Voltage	Size		Compatible with both signal types	
				Special signals	Normal signals		Outer Diameter	Length	Special signals (U2, U3, SDI, E2, E3, HD-SDI)	Standard signals (CAN/CANbus, Profibus, RS422/485, CC-Link, DeviceNet, etc.)
LPC-D30-1501-01S	30	0	1	/	/	/	Φ30	/	/	/
LPC-D39-20S-05E3	39	0	4	5	0	0~24AC/DCV	Φ39	140.5	E3	/
TMC-LPC-76A	0	0	2	3	/	0~240VAC	Φ35.5	105.7	E2,E3	/
LPT400-0730-04S	7*30A	Φ400mm	1	/	/	0~400VAC	Φ660	321	/	/

DeviceNet Slip Rings

Typical Model	Circuits	Inner Diameter (mm)	Profibus channels	Other signal channel		Voltage	Size		Compatible with both signal types	
				Special signals	Normal signals		Outer Diameter	Length	Special signals (U2, U3, SDI, E2, E3, HD-SDI)	Standard signals (CAN/CANbus, Profibus, RS422/485, CC-Link, DeviceNet, etc.)
LPT080-0220-05S-01A	2*20A	Φ80mm	5	/	/	240VAC/220VAC	Φ170	171.6		/

● Selection table

CAN/RS422/485 Slip Rings										
Typical Model	Circuits	Inner Diameter (mm)	Profibus channels	Other signal channel		Voltage	Size		Compatible with both signal types	
				Special signals	Normal signals		Outer Diameter	Length	Special signals (U2, U3, SDI, E2, E3, HD-SDI)	Standard signals (CAN/CANbus, Profibus, RS422/485, CC-Link, DeviceNet, etc.)
LPC-18-0306-0602-01S	18	0	1	/	/	0~380AC/DCV	Φ22	42.3	/	/
LPC-24-0406-0801-03S-IP54	24	0	1	/	/	48VAC/DC	Φ22	49	/	/
LPC-24YT-0208-0201-01E3-04S	24	0	1	1	/	0~48VAC/DC	Φ24.8	54.8	E3	/
LPC-30-0316-03S-IP65	30	0	3	/	/	0~380AC/DC	Φ22	57.3	/	/
LPC-D32-0210-26S-04SD1-01E3	32	0	5	5	1	0~24VAC/DC	Φ32	109	E3、HD-SDI	RS232
LPC-36-08S-05E2-IP51	36	0	2	5	/	48VAC/DC	Φ25	64	E2	/
LPC-36-0104-0211-0202-02S-01E2	36	0	2	1	/	24V/48VAC/DC	Φ22	57.3	E2	/
LPC-56-0104-0215-0203-02S-01E2	56	0	1	1	/	48VAC/DC	Φ25	85.7	E2	/
LPC-56-54S	56	0	2	/	38	0~28VAC/DC	Φ25	85.7	/	RS232/ Differential
LPC-56-23S-02E3-01SDI-IP51	56	0	23	2	/	0~380AC/DC	Φ25	85.7	E3、SDI	/
LPC-56-0415-02S-01E2-01E3-IP54	56	0	2	2	/	0~24VAC/DC	Φ105	103	E2、E3	/
LPT012-0208-0202-06S	2*8A 2*2A	Φ12.7mm	1	/	1	0~28VAC/DC	Φ56	64.4	/	Encoder signal
LPT050-6305-04S-16GND	56	Φ50mm	4	/	/	220VAC/24DC	Φ160	339.2	/	/
LPT000-0436-0410-40S-01A	4*36A 4*10A	0	40	/	/	48VDC	Φ119	113.6	/	/

● Customization options

Note: The following special requirements can be customized, JINPAT most of the basic accessories are standardized, modular, non-standard customization can also greatly reduce the cost and delivery time.

- 1、 Customized rotor and stator outlet and outlet length
- 2、 Due to structural limitations, can be customized in accordance with the specified length or height or external diameter
- 3、 Yasukawa, Panasonic, Siemens and other servo system signals, power lines, and encoder lines mixed slip ring
- 4、 Mixed high-speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CANBUS, CANPUS). CANOPEN, DeviceNET, CC-LINK, ProPNET, EtherCAT and other types of industrial lines).
- 5、 Anti-shock, high temperature and other special environment customization
- 6、 Can be mixed with pneumatic, hydraulic rotary joints integrated pneumatic-electrical-hydraulic slip ring
- 7、 Military grade
- 8、 Waterproof, underwater mode optional, IP65, IP68 optional