

## USB251 Series Overview

### Description

Slip ring is a precision device can be used in any electromechanical system that transfer signal and power from a stationary to a state structure, and the power and all kinds of signal can combination in one slip ring.

SB25 slip ring with through bore 25.4mm, outer diameter 86mm, can be mixed transmission power current, signal, etc. With transmission stability, no packet loss, no string of code, low return and insertion loss. US military coating technology, ultra-low BER error rate and superior signal to noise ratio.



### Specifications

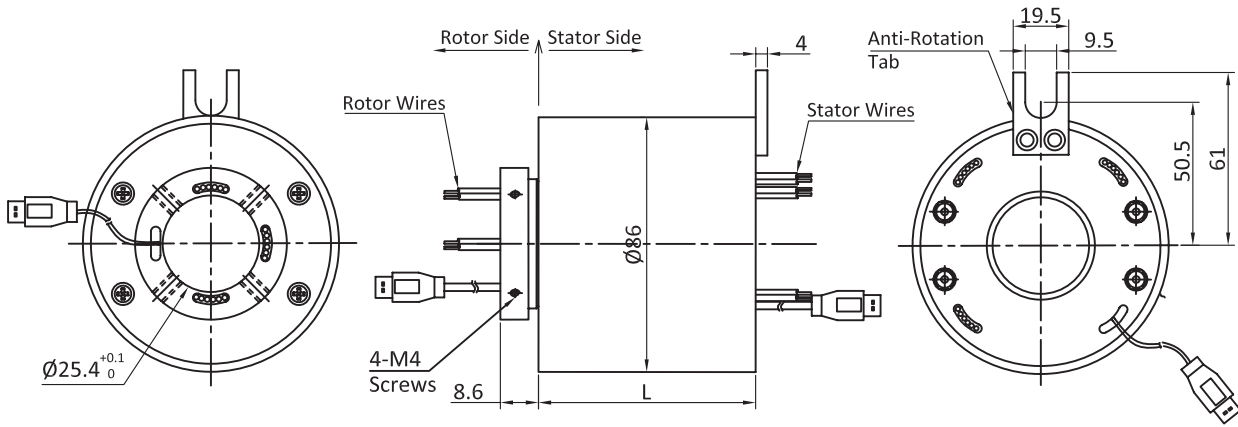
Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x USB2.0 + 2~32 wires
Lead Wire	USB cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A , Power 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

\* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

### Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

USB251 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	USB2.0	OD(mm)	Length(mm)
USB251-S02	-	2	1	86	44.2
USB251-P02	2	-	1	86	44.2
USB251-S08	-	8	1	86	65.2
USB251-P08	8	-	1	86	65.2
USB251-P04S04	4	4	1	86	65.2
USB251-S14	-	14	1	86	65.2
USB251-P04S10	4	10	1	86	86.2

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	-	USB2.0 cable	5	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	-		6	BLK	
3	-		7	BLU	
4	-		8	BRN	
		9	WHT		
		10	GRY		

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.