

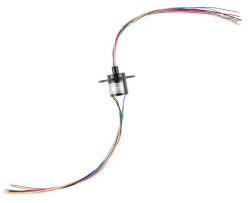
HOME / PRODUCT CATEGORIES / SLIP RINGS / SLIP RING - 12 WIRE (2A)

Slip Ring - 12 Wire (2A)

ROB-13139-5 ROHS ✓

★★★★☆ (1)

DESCRIPTION FEATURES DOCUMENTS



This is a 12 wire slip ring, a remarkably simple electromechanical assembly that allows electronic signals to be passed through its rotating inwards. Commonly, you'd find slip rings in wind turbines, radar antennae, or anything else that requires continuous 360° rotation while maintaining an electrical connection. This particular slip ring provides you with a compact body with gold-on-gold alloy fiber brush to plated ring contacts inside.

Each Slip ring is capable of handling a continuous working speed of 250RPM, a current rating of 2A, and an operating voltage of 210VDC / 240VAC. We aren't kidding about how compact this little guy is, with only an outer diameter of 22mm for the body and a 44mm diameter flange, you should have no issues fitting these into your next project. Additionally, the 250mm stranded wires protruding from each side of the slip ring have a thickness of 28AWG while the whole assembly has a water protection rating of IP51.

Images are CC BY 2.0

Slip Ring - 12 Wire (2A) Product Help and Resources

SUPPORT TIPS SKILLS NEEDED

****Slip Ring in continuous rotation camera****

last updated about 8 months ago

For those who have seen the video, and want to recreate Nick's camera rig, or something like it: here is the parts list, and how they're attached. [The full rig](#)

ROB-12433 screws onto the camera mount with a bolt and washer

2x ROB-13139 1/2" standoff for USB BOB

ROB-12505 holds camera and USB BOB

2x ROB-13139 1/2" standoff under plate, all attached to

ROB-12209, the pulley, on

ROB-12414 clamped onto a 2" long, 1" diameter tube going through

ROB-12282, the bearing block.

ROB-13084, the slip ring fits inside the tube, with the narrow end going into

ROB-12214, which attaches to

ROB-12122, the base

ROB-12282, the bearing block mentioned before, attaches to

ROB-12287 with washers, then to

4x ROB-12247 standoffs, on

ROB-12122, the base

ROB-12209, the large pulley from before connects with

ROB-12116, the smooth belt, to

ROB-12523, the hub mount pulley, which mounts on ROB-12347, the servo kit, which mounts on ROB-09347, the servo. 4x ROB-12286, standoffs attach the servo kit to ROB-12122, the base

All held together with machine screws in two lengths as needed, ROB-12525 ROB-12485

Reference Photos

Camera Mount Close-up

Pulley Mount Close-up 1

Pulley Mount Close-up 2

Underside of Pulley Mount

Stepper Pulley Close-up

Top view

Base of Rig

COMMENTS REVIEWS ★★★★★ (1)

Customer Reviews

★★★★☆ 3 out of 5

Based on 1 ratings:

5 star	0
4 star	0
3 star	1
2 star	0
1 star	0

Currently viewing all customer reviews.

1 of 1 found this helpful:

★★★★☆ It does what it is suppose to...

about 3 years ago by wbdawin [Viewing purchase](#)

I like it, the price is right and I'm using it but I wish it was more...

-->More amperage to handle motor start/stall currents -->More shielding to prevent crosstalk between motor currents, 3.3v digital IO, and analog sensors

I used it in an antenna tracker I'm using to autonomously point a high gain yagi antenna at a flying UAV. The slip ring has to carry the signals for DC motor, hall effect sensors, i2c geolocation, i2c imu... etc. To get enough current to the motors without harming the wire or slipping I'm actually sacrificing multiple wires to carry the motor current (not ideal).

Fits nicely in an antobotics 1 in. tube.

START SOMETHING

SUBSCRIBE TO NEWSLETTER

SUBSCRIBE TO NEWSLETTER

In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

About Us
 About SparkFun
 SparkFun Education
 Feeds
 Jobs
 Contact

Help
 Customer Service
 Shipping
 Return Policy
 FAQ
 Chat With Us

Programs
 Become a Community Partner
 Community Stories
 Custom Kit Requests
 Tell Us About Your Project
 Sell Your Widget on SparkFun
 Become a SparkFun Distributor
 Large Volume Sales

Community
 Forum
 SparkFun IRC Channel
 Take the SparkFun Quiz
 SparkFun Kickstarter Projects
 Distributors

What's on your mind?

For which department?
 General

Please include your email address if you'd like us to respond to a specific question.

SUBMIT