

STR50 Series Overview

Description

The 2 inch through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR50 with 50mm through hole, 119mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



Specifications

| Item | |
|-----------------------|------------------------------|
| Operating Speed | Max.500 RPM* |
| Number of Circuits | 2~100 wires |
| Lead Wire | AWG22#, AWG16# Teflon, 300mm |
| Voltage | 600V AC/DC |
| Operating Temperature | -40℃ to 80℃ |
| Current Rating | Signal / 5A, 10A circuits |
| Noise | <0.01Ω |
| Torque | 0.1N.m; +0.03N.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

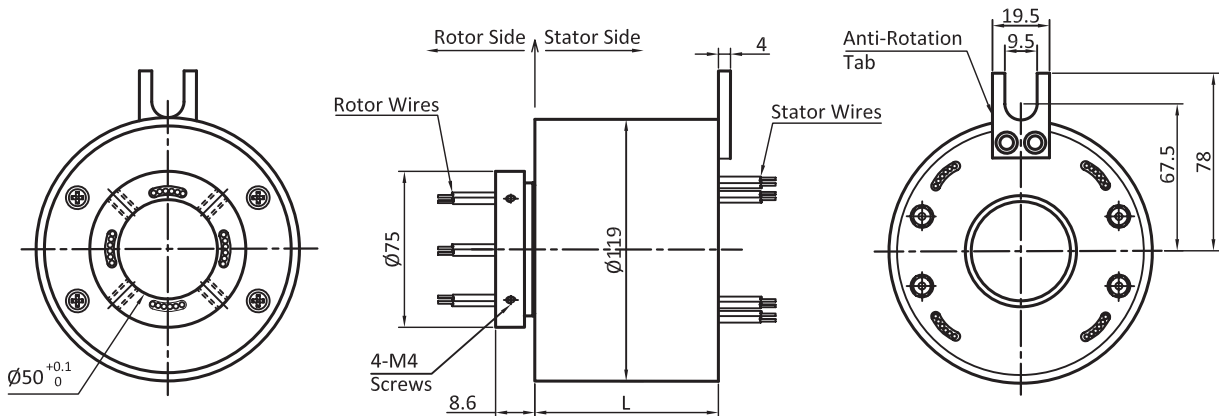
- 150mm OD flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR50

2

STR50 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(10A) | Signal or 5A | Length(mm) | Model# | Power(10A) | Signal or 5A | Length(mm) |
|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
| STR50-P2 | 2 | 0 | 37 | STR50-S24 | 0 | 24 | 120.6 |
| STR50-S2 | 0 | 2 | 37 | STR50-P24 | 24 | 0 | 120.6 |
| STR50-P3 | 3 | 0 | 40.8 | STR50-P6S24 | 6 | 24 | 143.4 |
| STR50-P2S2 | 2 | 2 | 44.6 | STR50-P18S12 | 18 | 12 | 143.4 |
| STR50-P4 | 4 | 0 | 44.6 | STR50-P30 | 30 | 0 | 143.4 |
| STR50-S6 | 0 | 6 | 52.2 | STR50-S30 | 0 | 30 | 143.4 |
| STR50-P6 | 6 | 0 | 52.2 | STR50-S36 | 0 | 36 | 166.2 |
| STR50-P12 | 12 | 0 | 75 | STR50-P12S24 | 12 | 24 | 166.2 |
| STR50-S12 | 0 | 12 | 75 | STR50-P36 | 36 | 0 | 166.2 |
| STR50-P2S10 | 2 | 10 | 75 | STR50-S42 | 0 | 42 | 193 |
| STR50-P4S8 | 4 | 8 | 75 | STR50-P6S36 | 6 | 36 | 193 |
| STR50-P6S6 | 6 | 6 | 75 | STR50-S48 | 0 | 48 | 215.8 |
| STR50-P6S12 | 6 | 12 | 97.8 | STR50-P12S36 | 12 | 36 | 215.8 |
| STR50-P18 | 18 | 0 | 97.8 | STR50-S56 | 0 | 56 | 246.2 |
| STR50-S18 | 0 | 18 | 97.8 | STR50-P6S50 | 6 | 50 | 246.2 |
| STR50-P10S8 | 10 | 8 | 97.8 | STR50-P12S44 | 12 | 44 | 246.2 |
| STR50-P06S18 | 6 | 18 | 120.6 | STR50-P6S54 | 6 | 54 | 261.4 |
| STR50-P12S12 | 12 | 12 | 120.6 | STR50-S72 | 0 | 72 | 307 |

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 | RED | Signal / AWG22# 10A / AWG16# | 7 | RED | Signal / AWG22# 10A / AWG16# |
| 2 | BLK | | 8 | BLK | |
| 3 | BLU | | 9 | BLU | |
| 4 | BRN | | 10 | BRN | |
| 5 | WHT | | 11 | WHT | |
| 6 | GRY | | 12 | GRY | |

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.