



EH50119-01 series 1 channel Gigabit Ethernet slip ring

1 channel Gigabit Ethernet+1~72 circuits power/signal

Senring EH50119-01 series Gigabit Ethernet rotary joint,,with integrated structure, hole 50mm, OD 119mm,can tranmit 1 channel Gigabit Ethernet signal accurately when 360° roating,It can be combined to transmit 1~58 circuits power(current 2~20A) and USB ,HDMI or other kinds of signal.Compared with similar products on market, with advantages of reliable transmitting,no packet loss,no string code,low return loss, low insertion loss,etc.

Part No. Description

EH50119 - 01 - power circuits - signal circuits - Product grade

E:100M/1000M Part no. description
H means through hole
H50119: ID 50mm, OD 119mm

Examples:
01:1 channels 100M/1000M baseT

C:standard
D:industrial

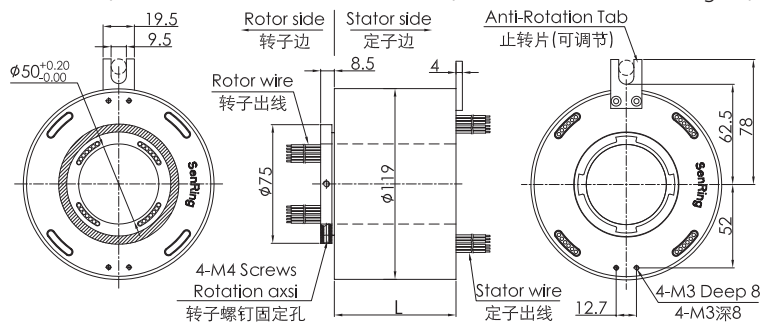
Examples:
06S:6 circuits signal@2A(5A options)
12S:12 circuits signal@2A(5A options)

Examples:
0610:6 circuits@10A
1210:12 circuits@10A

Examples

EH50119-01-06S : EH50119 means Gigabit Ethernet slip ring(hole size 50mm,OD119mm),01 means 1 channel Gigabit Ethernet,06S means 6 circuits signal;

EH50119-01-0410-18S : EH50119 means Gigabit Ethernet slip ring (hole size 50mm,OD119mm),01 means 1 channel Gigabit Ethernet,0410 means 4 circuits 10A each ,18S means 18 circuits signal;



Model List

| Model | power/signal circuits no. | | | 1000M Ethernet channels no. | length L(mm) |
|---------------------|---------------------------|------------|------------|-----------------------------|--------------|
| | 0~2A | power(10A) | power(20A) | | |
| EH50119-01-0210 | 0 | 2 | 0 | 1 | 76 |
| EH50119-01-04s | 4 | 0 | 0 | 1 | 76 |
| EH50119-01-0410 | 0 | 4 | 0 | 1 | 76 |
| EH50119-01-0420 | 0 | 0 | 4 | 1 | 76 |
| EH50119-01-10S | 10 | 0 | 0 | 1 | 100 |
| EH50119-01-0210-08S | 8 | 2 | 0 | 1 | 100 |
| EH50119-01-0610-04S | 4 | 6 | 0 | 1 | 100 |
| EH50119-01-16S | 16 | 0 | 0 | 1 | 124 |
| EH50119-01-1610 | 0 | 16 | 0 | 1 | 124 |
| EH50119-01-0410-12S | 12 | 4 | 0 | 1 | 124 |
| EH50119-01-0810-08S | 8 | 8 | 0 | 1 | 124 |
| EH50119-01-22S | 22 | 0 | 0 | 1 | 148 |
| EH50119-01-0410-18S | 18 | 4 | 0 | 1 | 148 |
| EH50119-01-2210 | 0 | 22 | 0 | 1 | 148 |
| EH50119-01-28S | 28 | 0 | 0 | 1 | 172 |
| EH50119-01-40S | 40 | 0 | 0 | 1 | 218 |
| EH50119-01-58S | 58 | 0 | 0 | 1 | 290 |

*Remark:Circuits can be combined in parallel for bigger current,N circuits of 10A to get N*10A,such as 2 circuits of 10A in parallel for 20A use. if you need customize the channel no. of Ethernet,power and signal,or mix other signals,pls contact the SenRing salesman.

Technical Specification of the slip ring

| | | | | |
|------------------|--------------------------------|-----------------------|------------------------------------|-----------------------------|
| Ethernet | 1 channels 100M/1000M baseT | connectors | Rj45 | |
| Mechanical Data | | Electrical Data | | |
| spec | data | spec | data | |
| working life | refer to slip ring grade table | | power | signal |
| Rotating speed | refer to slip ring grade table | voltage range | 0~440VAC/VDC | 0~440VAC/VDC |
| working temp. | -30℃~80℃ | insulation resistance | ≥1000MΩ/500VDC | ≥1000MΩ/500VDC |
| work humidity | 0~85%RH | lead wire spec. | AWG17# Silver-plated teflon | AWG22# Silver-plated teflon |
| contact material | refer to slip ring grade table | | | |
| housing material | aluminum alloy | lead wire length | standard 300mm (can be customized) | |
| torque | 0.1N.m;+0.03N.m/6 circuits | Dielectric Strength | 500VAC@50Hz,60s | |
| IP grade | MIL-STD-810E | Electrical noise | <0.01Ω | |
| certificate | RoHS certificate | CE certificate | Yes | |

Grade code

| Grade code | Max rotating speed | working life | contact material |
|--------------|--------------------|--------------|------------------|
| C:standard | 400RPM | 20 millions | precious metal |
| D:industrial | 800RPM | 60 millions | gold-gold |

Color Code of Lead Wire

| ring # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|
| color | BLK | BRN | RED | ORG | YEL | GRN | BLU | PUR | GRY | WHT | PINK | LGT BLU |
| ring# | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| color | WHT/BLK | WHT/BRN | WHT/RED | WHT/ORG | WHT/YEL | WHT/GRN | WHT/BLU | WHT/PUR | WHT/GRY | BLK/RED | BLK/BRN | Transparent |

Remark: "1" : the first wire from rotor side , EH50119-01-06S wire color sequence: BLK/BRN/RED/ORG/YEL/ GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....