

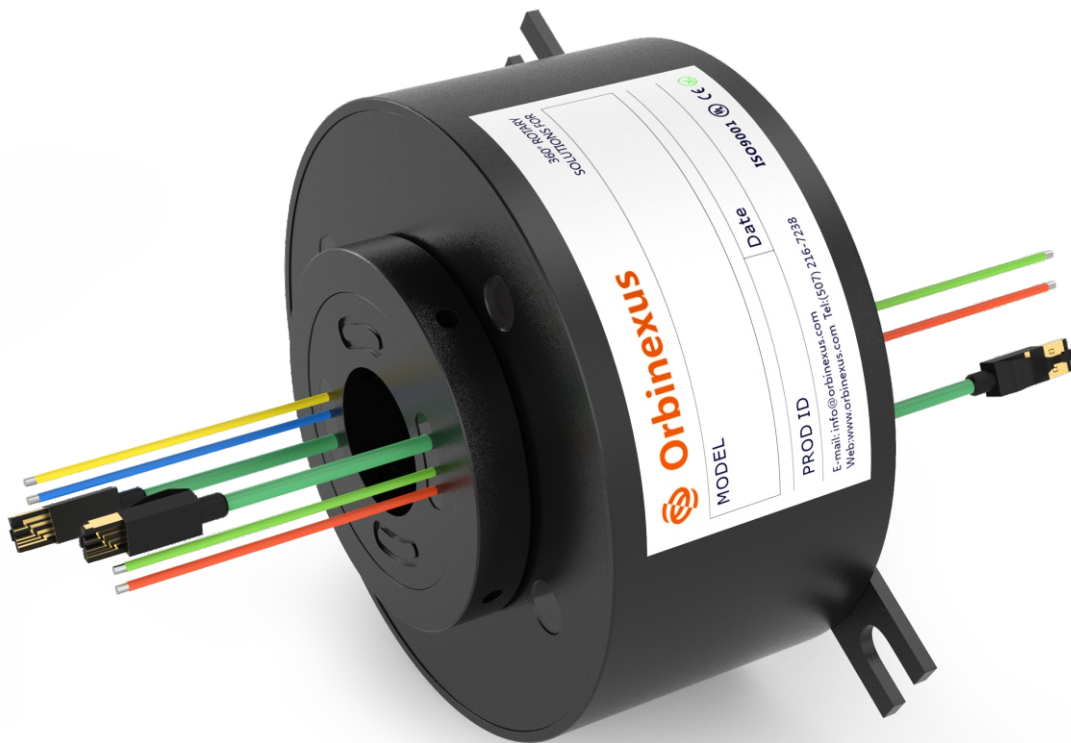
BXMB500 SERIES

Industry Bus Slip Rings(high speed transmission)

BXMB500 series is our standard series integral and precise industry bus slip ring , with bore size 50mm (suitable for <=50mm), can support Profibus, EtherCAT,CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, etc.

Note: If required through bore<50mm,this can be solved by adding a sleeve inside the bore.

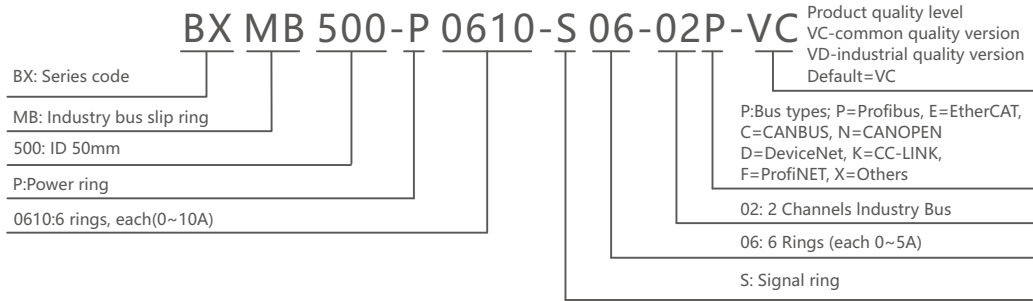
Product images



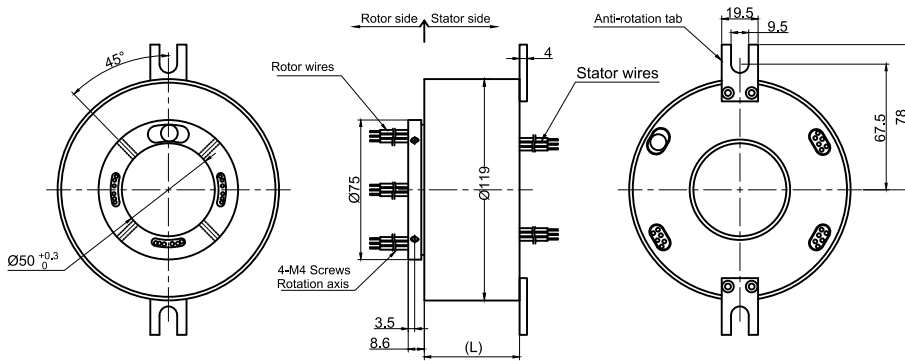
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BXMB500 Series Industry Bus Slip Rings Part List Table

| Parts# | 10A | Signal or 5A | Industrial Bus | Length(mm) |
|-----------------------|-----|--------------|----------------|------------|
| BXMB500-01P | 0 | 0 | Profibus ×1 | 51.2 |
| BXMB500-P0610-01P | 6 | 0 | Profibus ×1 | 74 |
| BXMB500-P1210-01P | 12 | 0 | Profibus ×1 | 96.8 |
| BXMB500-P0610-S06-01P | 6 | 6 | Profibus ×1 | 96.8 |
| BXMB500-S12-01P | 0 | 12 | Profibus ×1 | 96.8 |
| BXMB500-P1810-01P | 18 | 0 | Profibus ×1 | 119.6 |
| BXMB500-P0610-S12-01P | 6 | 12 | Profibus ×1 | 119.6 |
| BXMB500-P1210-S06-01P | 12 | 6 | Profibus ×1 | 119.6 |
| BXMB500-S24-01P | 0 | 24 | Profibus ×1 | 142.4 |
| BXMB500-P1210-S12-01P | 12 | 12 | Profibus ×1 | 142.4 |
| BXMB500-S30-01P | 0 | 30 | Profibus ×1 | 165.2 |
| BXMB500-S36-01P | 0 | 36 | Profibus ×1 | 192 |
| BXMB500-01C | 0 | 0 | CANBUS ×1 | 51.2 |
| BXMB500-P0610-01C | 6 | 0 | CANBUS ×1 | 74 |

BXMB500 Series Industry Bus Slip Rings Part List Table

| Parts# | 10A | Signal or 5A | Industrial Bus | Length(mm) |
|-----------------------|-----|--------------|----------------|------------|
| BXMB500-P1210-01C | 12 | 0 | CANBUS ×1 | 96.8 |
| BXMB500-P0610-S06-01C | 6 | 6 | CANBUS ×1 | 96.8 |
| BXMB500-S12-01C | 0 | 12 | CANBUS ×1 | 96.8 |
| BXMB500-P1810-01C | 18 | 0 | CANBUS ×1 | 119.6 |
| BXMB500-P0610-S12-01C | 6 | 12 | CANBUS ×1 | 119.6 |
| BXMB500-P1210-S06-01C | 12 | 6 | CANBUS ×1 | 119.6 |
| BXMB500-S24-01C | 0 | 0 | CANBUS ×1 | 142.4 |
| BXMB500-P1210-S12-01C | 12 | 12 | CANBUS ×1 | 142.4 |
| BXMB500-S30-01C | 0 | 30 | CANBUS ×1 | 165.2 |
| BXMB500-S36-01C | 0 | 36 | CANBUS ×1 | 192 |
| BXMB500-01N | 0 | 0 | CANOPEN ×1 | 51.2 |
| BXMB500-P0610-01N | 6 | 0 | CANOPEN ×1 | 74 |
| BXMB500-P1210-01N | 12 | 0 | CANOPEN ×1 | 96.8 |
| BXMB500-P0610-S06-01N | 6 | 6 | CANOPEN ×1 | 96.8 |
| BXMB500-S12-01N | 0 | 12 | CANOPEN ×1 | 96.8 |
| BXMB500-P1810-01N | 18 | 0 | CANOPEN ×1 | 119.6 |
| BXMB500-P0610-S12-01N | 6 | 12 | CANOPEN ×1 | 119.6 |
| BXMB500-P1210-S06-01N | 12 | 6 | CANOPEN ×1 | 119.6 |
| BXMB500-S24-01N | 0 | 24 | CANOPEN ×1 | 142.4 |
| BXMB500-P1210-S12-01N | 12 | 12 | CANOPEN ×1 | 142.4 |
| BXMB500-S30-01N | 0 | 30 | CANOPEN ×1 | 165.2 |
| BXMB500-S36-01N | 0 | 36 | CANOPEN ×1 | 192 |
| BXMB500-01K | 0 | 0 | CC-LINK ×1 | 51.2 |
| BXMB500-P0610-01K | 6 | 0 | CC-LINK×1 | 74 |
| BXMB500-P1210-01K | 12 | 0 | CC-LINK ×1 | 96.8 |
| BXMB500-P0610-S06-01K | 6 | 6 | CC-LINK ×1 | 96.8 |
| BXMB500-S12-01K | 0 | 12 | CC-LINK ×1 | 96.8 |
| BXMB500-P1810-01K | 18 | 0 | CC-LINK ×1 | 119.6 |
| BXMB500-01E | 0 | 0 | EtherCAT ×1 | 51.2 |
| BXMB500-P0610-01E | 6 | 0 | EtherCAT ×1 | 74 |
| BXMB500-P1210-01E | 12 | 0 | EtherCAT ×1 | 96.8 |
| BXMB500-P0610-S06-01E | 6 | 6 | EtherCAT ×1 | 96.8 |
| BXMB500-S12-01E | 0 | 12 | EtherCAT ×1 | 96.8 |
| BXMB500-P1810-01E | 18 | 0 | EtherCAT ×1 | 119.6 |
| BXMB500-P0610-S12-01E | 6 | 12 | EtherCAT ×1 | 119.6 |
| BXMB500-P1210-S06-01E | 12 | 6 | EtherCAT ×1 | 119.6 |
| BXMB500-S24-01E | 0 | 24 | EtherCAT ×1 | 142.4 |
| BXMB500-P1210-S12-01E | 12 | 12 | EtherCAT ×1 | 142.4 |
| BXMB500-S30-01E | 0 | 30 | EtherCAT ×1 | 165.2 |

BXMB500 Series Industry Bus Slip Rings Part List Table

| Parts# | 10A | Signal or 5A | Industrial Bus | Length(mm) |
|-----------------------|-----|--------------|----------------|------------|
| BXMB500-S36-01E | 0 | 36 | EtherCAT ×1 | 192 |
| BXMB500-01D | 0 | 0 | DeviceNET ×1 | 51.2 |
| BXMB500-P0610-01D | 6 | 0 | DeviceNET ×1 | 74 |
| BXMB500-P1210-01D | 12 | 0 | DeviceNET ×1 | 96.8 |
| BXMB500-P0610-S06-01D | 6 | 6 | DeviceNET ×1 | 96.8 |
| BXMB500-S12-01D | 0 | 12 | DeviceNET ×1 | 96.8 |
| BXMB500-P1810-01D | 18 | 0 | DeviceNET ×1 | 119.6 |
| BXMB500-P0610-S12-01D | 6 | 12 | DeviceNET ×1 | 119.6 |
| BXMB500-P1210-S06-01D | 12 | 6 | DeviceNET ×1 | 119.6 |
| BXMB500-S24-01D | 0 | 0 | DeviceNET ×1 | 142.4 |
| BXMB500-P1210-S12-01D | 12 | 12 | DeviceNET ×1 | 142.4 |
| BXMB500-S30-01D | 0 | 30 | DeviceNET ×1 | 165.2 |
| BXMB500-S36-01D | 0 | 36 | DeviceNET ×1 | 192 |
| BXMB500-01F | 0 | 0 | ProfiNET ×1 | 51.2 |
| BXMB500-P0610-01F | 6 | 0 | ProfiNET ×1 | 74 |
| BXMB500-P1210-01F | 12 | 0 | ProfiNET ×1 | 96.8 |
| BXMB500-P0610-S06-01F | 6 | 6 | ProfiNET ×1 | 96.8 |
| BXMB500-S12-01F | 0 | 12 | ProfiNET ×1 | 96.8 |
| BXMB500-P1810-01F | 18 | 0 | ProfiNET ×1 | 119.6 |
| BXMB500-P0610-S12-01F | 6 | 12 | ProfiNET ×1 | 119.6 |
| BXMB500-P1210-S06-01F | 12 | 6 | ProfiNET ×1 | 119.6 |
| BXMB500-S24-01F | 0 | 24 | ProfiNET ×1 | 142.4 |
| BXMB500-P1210-S12-01F | 12 | 12 | ProfiNET ×1 | 142.4 |
| BXMB500-S30-01F | 0 | 30 | ProfiNET ×1 | 165.2 |
| BXMB500-S36-01F | 0 | 36 | ProfiNET ×1 | 192 |
| BXMB500-P0610-S12-01K | 6 | 12 | CC-LINK ×1 | 119.6 |
| BXMB500-P1210-S06-01K | 12 | 6 | CC-LINK ×1 | 119.6 |
| BXMB500-S24-01K | 0 | 24 | CC-LINK ×1 | 142.4 |
| BXMB500-P1210-S12-01K | 12 | 12 | CC-LINK ×1 | 142.4 |
| BXMB500-S30-01K | 0 | 30 | CC-LINK ×1 | 165.2 |
| BXMB500-S36-01K | 0 | 36 | CC-LINK ×1 | 192 |

Note:

1. N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
2. Power 10A and signal rings number can be with flexible module configuration on customer's request. Please contact customer service for more various industrial bus configuration.

Mechanical Data

| Project | Numerical value |
|---------------------|---------------------------------|
| Working Life | See product quality level table |
| Rotating Speed | See product quality level table |
| Working temperature | -30°C~80°C |
| Operating Humidity | 0~85% RH |
| Contact Material | See product quality level table |
| Housing Material | aluminum alloy |
| Torque | 0.1N.m; +0.03N.m/6 rings |
| Protection Grade | IP51 |

Electrical Data

| Project | Power | Signal |
|-----------------------|------------------------------------|---------------------------|
| Rated Voltage | 0~440VAC/VDC | 0~440VAC/VDC |
| Insulation Resistance | ≥1000MΩ/500VDC | ≥1000MΩ/500VDC |
| Lead Wire | AWG16#Teflon | AWG22#Teflon or bus cable |
| Lead Length | standard length 300mm (adjustable) | |
| Insulating Strength | 500VAC@50Hz, 60s | |
| Electrical Noise | <0.01Ω | |

Product Quality Level Table

| Quality Level Code | Max Rotating Speed | Working Life | Contact Material |
|-------------------------|--------------------|------------------|------------------|
| VC (Common Version) | 200RPM | 15 Million Revs | Precious Metal |
| VD (Industrial Version) | 600RPM | 80 Million Revs | Gold-Gold |
| VH (high-end version) | 1000RPM | 150 Million Revs | Aluminum Alloy |

Lead Wires Color Code

| Ring | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Color | BLK | RED | YEL | GRN | BLU | WHT | BLK | RED | YEL | GRN | BLU | WHT |

(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe)

Options for custom slip ring

Note: Below special demands can be customized According , the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50% . Most of our basic parts are standard and modular which can save the cost and lead time.

1. Cable exit way and cable length can be customized for both rotor and stator.
2. Because of the structure limitation, length/height/OD can be customized on your request.
3. Support current or signal up to 200 rings.
4. Aviation plug, terminal and heat-shrink tube are optional.
5. Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.

6. Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
 7. Can combine temperature control signal with thermocouple signal.
 8. Special environment can be customized, such as quakeproof, high temperature, etc.
 9. Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
 10. High temperature can up to 500 degrees.
 11. High pressure can up to 110KV
 12. Rotating speed can up to 10000RPM
 13. Maximum current can up to 5000 amperes.
 14. Military grade
 15. Optional for underwater IP65, IP68.
 16. Optional for stainless steel housing
- Technical support : Info@orbinexus.com