

## MT080 Series

Through bore 80mm(3.15"), Overall Diameter: 158mm

MT080 series provides a 80mm(3.15") through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 158mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications.

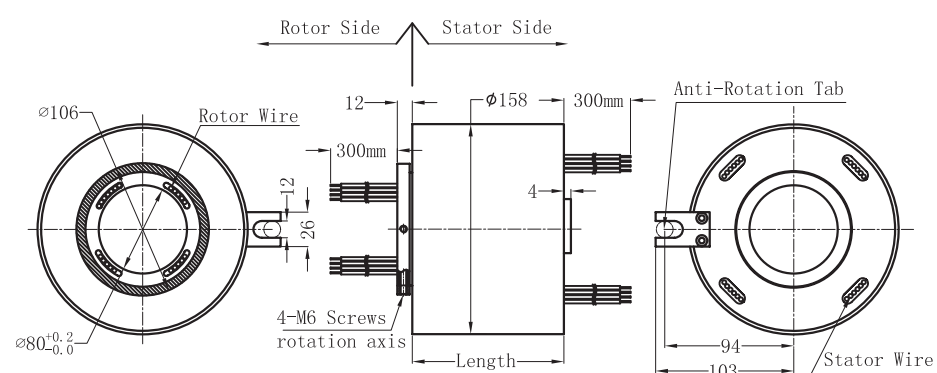


### Specifications

|                       |                          |                    |                          |
|-----------------------|--------------------------|--------------------|--------------------------|
| Rings                 | 3~96(see table as below) | Current            | Signal(2A),10A           |
| Voltage               | 600 VDC/VAC              | Max speed          | 500RPM                   |
| Through bore size     | 80mm(3.15")              | Overall diameter   | 158mm(6.22")             |
| Housing Material      | Aluminium Alloy          | Torque             | 0.1N.m;+0.03N.m/6rings   |
| Working life          | Depends on speed         | Contact material   | Precious Metal:Gold-Gold |
| Electrical noise      | <10 mOhm                 | Contact Resistance | <2 mOhm                  |
| Dielectric strength   | 1000VDC@50Hz             | Lead Wire          | UL Teflon® Awg22,Awg16   |
| Insulation resistance | 1000MΩ@600VDC            | Lead Lengths       | 300mm(12")               |
| Operating Temp.       | -40°C to 80°C            | Protection         | IP51                     |
| Mechanical vibratio   | MIL-SID-810E             | Humidity           | 10% to 85% RH            |
| Materials             | Lead Free,RoHS compliant | Certified          | YES                      |

### Drawings

#### Standard drawings:



MT080

#### Lead wire Color codes

| Rings# | Color Code | Rings# | Color Code | Rings# | Color Code |
|--------|------------|--------|------------|--------|------------|
| 1      | BLK        | 5      | YEL        | 9      | GRY        |
| 2      | BRN        | 6      | GRN        | 10     | WHT        |
| 3      | RED        | 7      | BLU        | 11     | PINK       |
| 4      | ORN        | 8      | PURPLE     | 12     | AZURY      |

12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12, indicated with number code pipe.

### Parts List

\*Please note: 10A rings parallel can be used as multiple 10A current.

For Example: 2 rings parallel could be used as 1 wires 20A

| MT08002 (Length=41.5mm) |           |           |              |           |           |
|-------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                  | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08002-0200            | 2         | 0         | MT08002-0002 | 0         | 2         |

| MT08003 (Length=45mm) |           |           |              |           |           |
|-----------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08003-0300          | 3         | 0         | MT08003-0003 | 0         | 3         |
| MT08003-0102          | 1         | 2         | MT08003-0201 | 2         | 1         |

| MT08006 (Length=56mm) |           |           |              |           |           |
|-----------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08006-0600          | 6         | 0         | MT08006-0006 | 0         | 6         |
| MT08006-0204          | 2         | 4         | MT08006-0402 | 4         | 2         |

| MT08012 (Length=77.5mm) |           |           |              |           |           |
|-------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                  | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08012-1200            | 12        | 0         | MT08012-0012 | 0         | 12        |
| MT08012-0210            | 2         | 10        | MT08012-0408 | 4         | 8         |
| MT08012-0606            | 6         | 6         | MT08012-0804 | 8         | 4         |
| MT08012-1002            | 10        | 2         |              |           |           |

| MT08018 (Length=99mm) |           |           |              |           |           |
|-----------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08018-1800          | 18        | 0         | MT08018-0018 | 0         | 18        |
| MT08018-0216          | 2         | 16        | MT08018-0414 | 4         | 14        |
| MT08018-0612          | 6         | 12        | MT08018-0810 | 8         | 10        |
| MT08018-1008          | 10        | 8         | MT08018-1206 | 12        | 6         |
| MT08018-1404          | 14        | 4         | MT08018-1602 | 16        | 2         |

| MT08024 (Length=120.8mm) |           |           |              |           |           |
|--------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                   | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08024-2400             | 24        | 0         | MT08024-0024 | 0         | 24        |
| MT08024-0618             | 6         | 18        | MT08024-1212 | 12        | 12        |
| MT08024-1806             | 18        | 6         |              |           |           |

## Parts List

| MT08030 (Length=142.5mm) |           |           |              |           |           |
|--------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                   | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08030-3000             | 30        | 0         | MT08030-0030 | 0         | 30        |
| MT08030-0624             | 6         | 24        | MT08030-1218 | 12        | 18        |
| MT08030-1812             | 18        | 12        | MT08030-2406 | 24        | 6         |

| MT08036 (Length=164mm) |           |           |              |           |           |
|------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                 | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08036-3600           | 36        | 0         | MT08036-0036 | 0         | 36        |
| MT08036-0630           | 6         | 30        | MT08036-1224 | 12        | 24        |
| MT08036-1818           | 18        | 18        | MT08036-2412 | 24        | 12        |
| MT08036-3006           | 30        | 6         |              |           |           |

| MT08042 (Length=185.5mm) |           |           |              |           |           |
|--------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                   | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08042-4200             | 42        | 0         | MT08042-0042 | 0         | 42        |
| MT08042-0636             | 6         | 36        | MT08042-1230 | 12        | 30        |
| MT08042-1824             | 18        | 24        | MT08042-2418 | 24        | 18        |
| MT08042-3012             | 30        | 12        | MT08042-3606 | 36        | 6         |

| MT08048 (Length=207mm) |           |           |              |           |           |
|------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                 | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08048-4800           | 48        | 0         | MT08048-0048 | 0         | 48        |
| MT08048-0642           | 6         | 42        | MT08048-1236 | 12        | 36        |
| MT08048-1830           | 18        | 30        | MT08048-2424 | 24        | 24        |
| MT08048-3018           | 30        | 18        | MT08048-3612 | 36        | 12        |
| MT08048-4206           | 42        | 6         |              |           |           |

| MT08056 (Length=236mm) |           |           |              |           |           |
|------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                 | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08056-5600           | 56        | 0         | MT08056-0056 | 0         | 56        |
| MT08056-0650           | 6         | 50        | MT08056-1244 | 12        | 44        |
| MT08056-1838           | 18        | 38        | MT08056-2432 | 24        | 32        |
| MT08056-3620           | 36        | 20        | MT08056-4808 | 48        | 8         |

| MT08072 (Length=293.5mm) |           |           |              |           |           |
|--------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                   | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08072-7200             | 72        | 0         | MT08072-0072 | 0         | 72        |
| MT08072-1260             | 12        | 60        | MT08072-2448 | 24        | 48        |
| MT08072-3042             | 30        | 42        | MT08072-3636 | 36        | 36        |
| MT08072-4824             | 48        | 24        | MT08072-6012 | 60        | 12        |

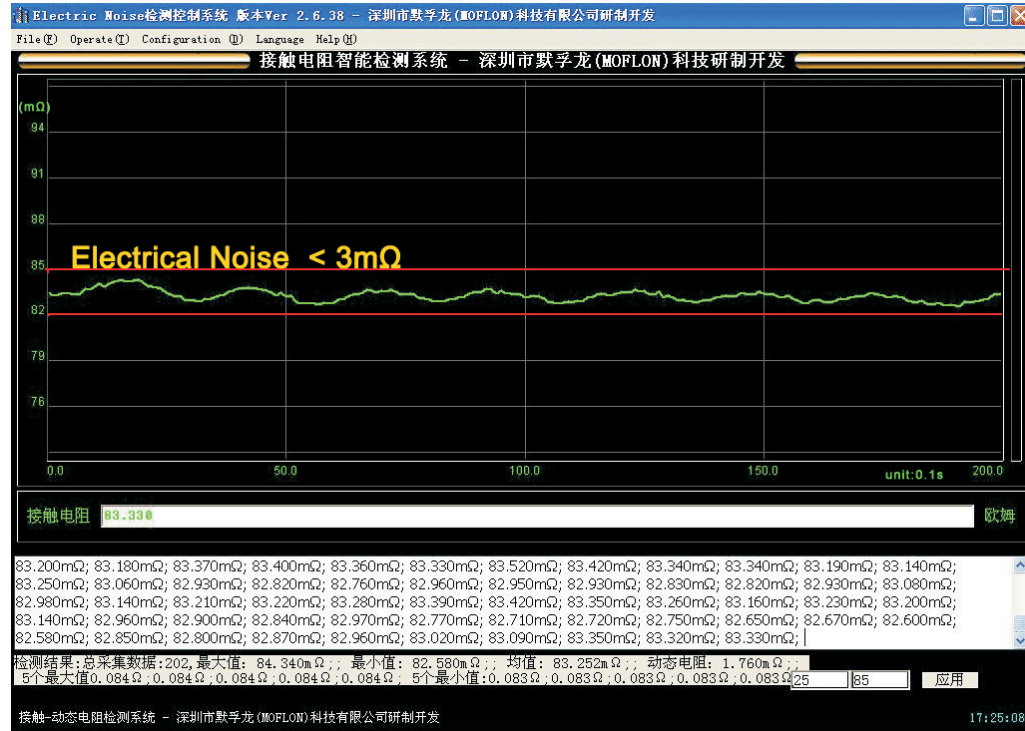
| MT08096 (Length=380mm) |           |           |              |           |           |
|------------------------|-----------|-----------|--------------|-----------|-----------|
| Parts#                 | Power 10A | signal/2A | Parts#       | Power 10A | signal/2A |
| MT08096-9600           | 96        | 0         | MT08096-0096 | 0         | 96        |
| MT08096-1284           | 12        | 84        | MT08096-2472 | 24        | 72        |
| MT08096-3660           | 36        | 60        | MT08096-4848 | 48        | 48        |
| MT08096-6036           | 60        | 36        | MT08096-7224 | 72        | 24        |

\*Please note: 10A rings parallel can be used as multiple 10A current.

For Example: 2 rings parallel could be used as 1 wires 20A

# Electrical Noise Test System

# Slip Rings Assembly Work Shop



# Working life Test System

