

### Mt050 Series

Through bore 50.8mm(2"), Overall Diameter: 120mm (4.72")  
50mm bore size are optional

Mt050series provides a 50.8mm(2") through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 120mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications.

MT050 series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal(2A), 10A current at max 600VAC/VDC



#### Specifications

Rings	2~96(see next page)	Current	Signal(2A),10A
Voltage	600 VDC/VAC	Max speed	600RPM
Through bore size	50.8mm(2")	Overall diameter	120mm(4.72")
Housing Material	Aluminium Alloy	Torque	0.05N.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

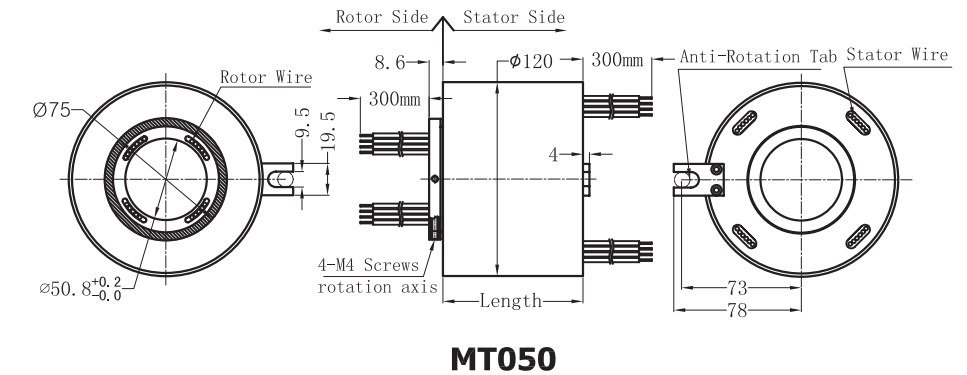
#### Lead wire Color codes

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

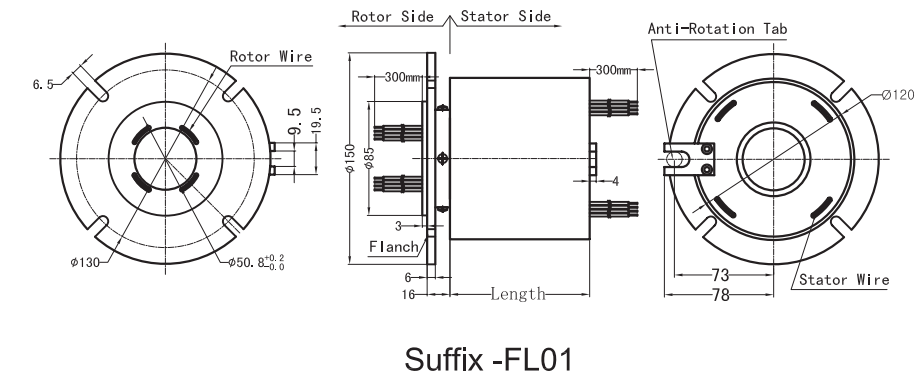
12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12,indicated with number code pipe.

### Drawings

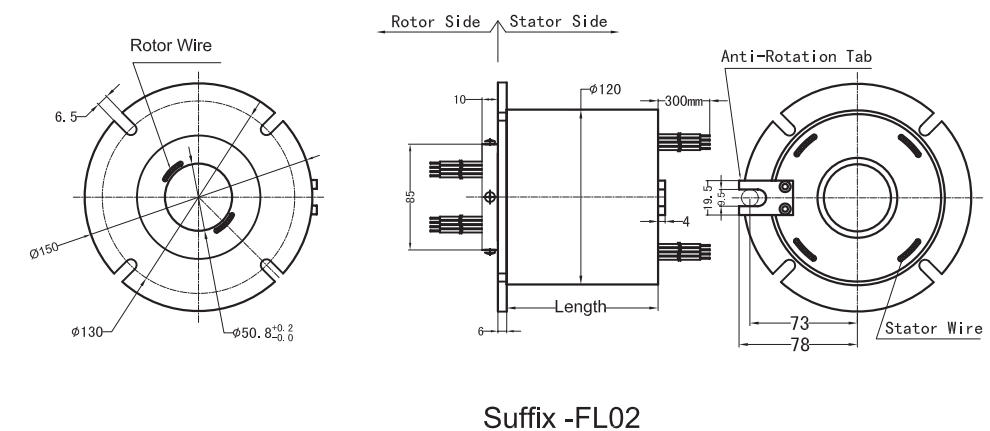
#### Standard drawings:



#### Optional FI01 Rotor Flanges drawings:



#### Optional FI02 Stator Flanges drawings:



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## 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

MT05002 (Length=36mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05002-0200	2	0	MT05002-0002	0	2

MT05003 (Length=39.8mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05003-0300	3	0	MT05003-0003	0	3
MT05003-0102	1	2	MT05003-0201	2	1

MT05006 (Length=51mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05006-0600	6	0	MT05006-0006	0	6
MT05006-0204	2	4	MT05006-0402	4	2

MT05012 (Length=74mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05012-1200	12	0	MT05012-0012	0	12
MT05012-0210	2	10	MT05012-0408	4	8
MT05012-0606	6	6	MT05012-0804	8	4
MT05012-1002	10	2			

MT05018 (Length=96.8mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05018-1800	18	0	MT05018-0018	0	18
MT05018-0216	2	16	MT05018-0414	4	14
MT05018-0612	6	12	MT05018-0810	8	10
MT05018-1008	10	8	MT05018-1206	12	6
MT05018-1404	14	4	MT05018-1602	16	2

MT05024 (Length=119.5mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05024-2400	24	0	MT05024-0024	0	24
MT05024-0618	6	18	MT05024-1212	12	12
MT05024-1806	18	6			

MT05030 (Length=142.4mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05030-3000	30	0	MT05030-0030	0	30
MT05030-0624	6	24	MT05030-1218	12	18
MT05030-1812	18	12	MT05030-2406	24	6

MT05036 (Length=165mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05036-3600	36	0	MT05036-0036	0	36
MT05036-0630	6	30	MT05036-1224	12	24
MT05036-1818	18	18	MT05036-2412	24	12
MT05036-3006	30	6			

MT05042 (Length=188mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05042-4200	42	0	MT05042-0042	0	42
MT05042-0636	6	36	MT05042-1230	12	30
MT05042-1824	18	24	MT05042-2418	24	18
MT05042-3012	30	12	MT05042-3606	36	6

MT05048 (Length=210.8mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05048-4800	48	0	MT05048-0048	0	48
MT05048-0642	6	42	MT05048-1236	12	36
MT05048-1830	18	30	MT05048-2424	24	24
MT05048-3018	30	18	MT05048-3612	36	12
MT05048-4206	42	6			

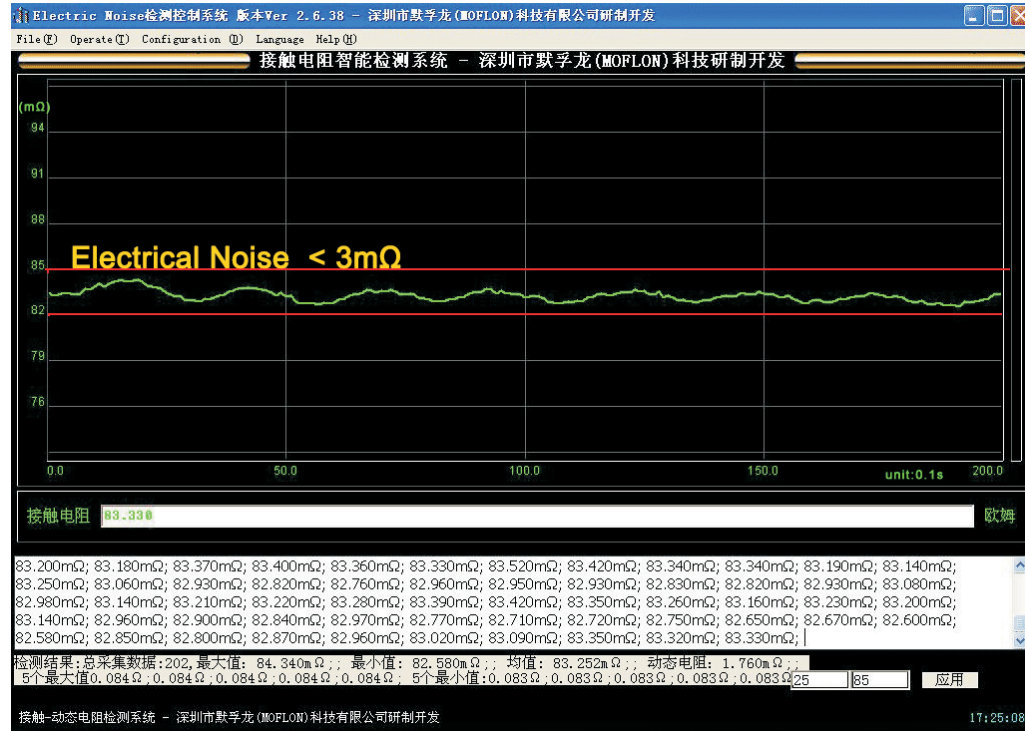
MT05056 (Length=241mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05056-5600	56	0	MT05056-0056	0	56
MT05056-0650	6	50	MT05056-1244	12	44
MT05056-1838	18	38	MT05056-2432	24	32
MT05056-3620	36	20	MT05056-4808	48	8

MT05072 (Length=302mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05072-7200	72	0	MT05072-0072	0	72
MT05072-1260	12	60	MT05072-2448	24	48
MT05072-3042	30	42	MT05072-3636	36	36
MT05072-4824	48	24	MT05072-6012	60	12

MT05096 (Length=393mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MT05096-9600	96	0	MT05096-0096	0	96
MT05096-1284	12	84	MT05096-2472	24	72
MT05096-3660	36	60	MT05096-4848	48	48
MT05096-6036	60	36	MT05096-7224	72	24

# Electrical Noise Test System

# Slip Rings Assembly Work Shop



# Working life Test System

