

## MZ090 Series

### Body Diameter 90mm, Rotor Flange Mounting

Mz090 series provides flange for rotor installation or end of shaft for installation, and a compact 90mm body diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications.

MZ090 series can support shielding wires on request, and shield rings inside, special for encoder signal and servo motor control signal



### Specifications

Circuits	1~72(see next page)	Current	Signal(2A),10A/Rings
Voltage	600 VDC/VAC	Max speed	1000RPM

Housing Material	Aluminium Alloy	Torque	0.1N/m for 6rings, additional 6rings +0.03N/m
Working life	>120million revolutions	Contact material	Precious Metal:Gold-Gold
Electrical noise	<5 mOhm	Contact Resistance	<3mOhm
Dielectric strength	800VDC@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

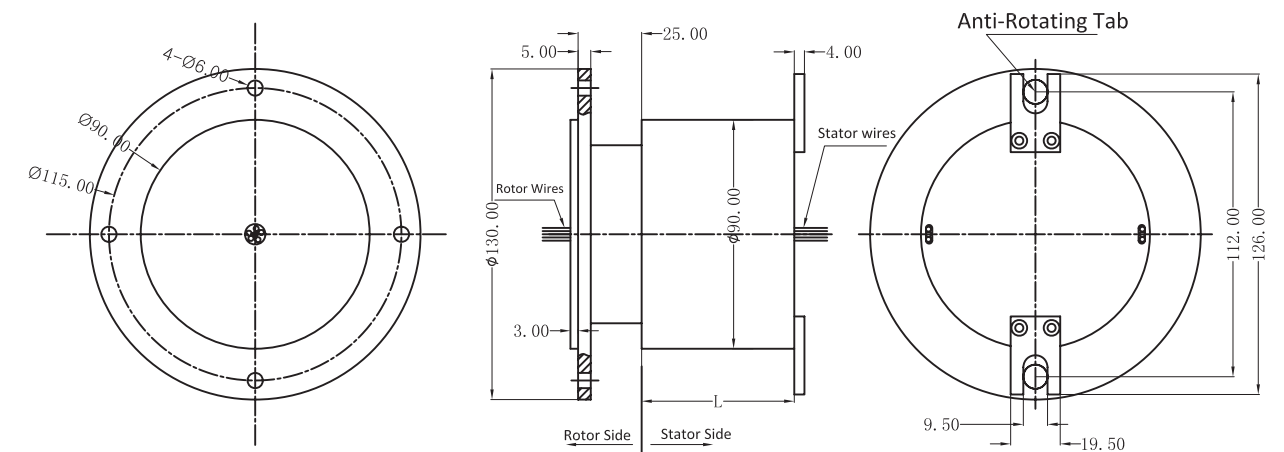
### Lead wire Color codes

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

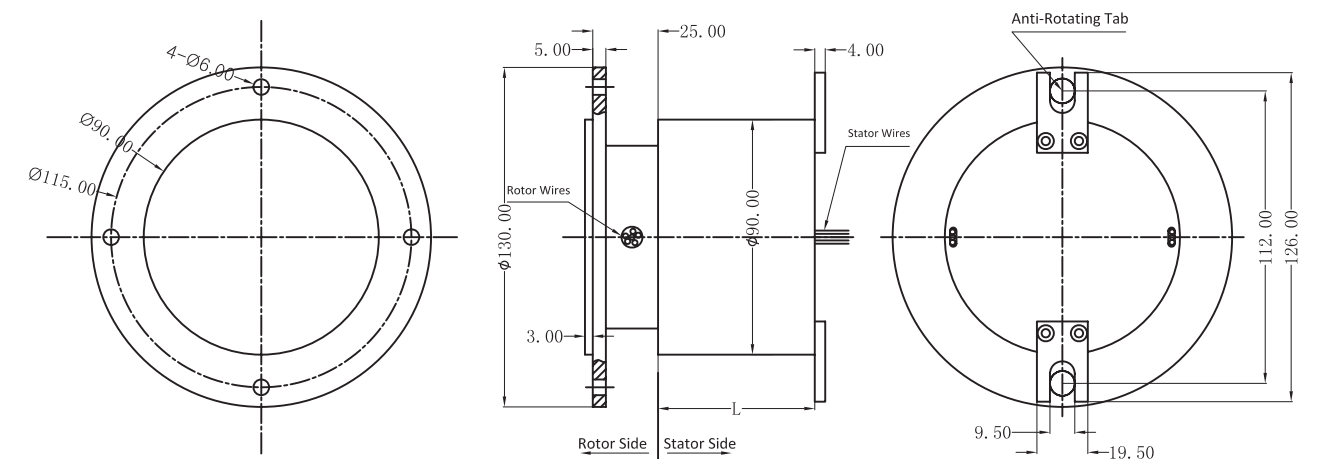
12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12, Color Goups are indicated with number code pipe.

## Drawings

### Standard drawings:



### Optional rotor wires exit(FL01):



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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**

MZ09006 (Length=53mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09006-0600	6	0	MZ09006-0006	0	6
MZ09006-0204	2	4	MZ09006-0402	4	2

MZ09012 (Length=73.5mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09012-1200	12	0	MZ09012-0012	0	12
MZ09012-0210	2	10	MZ09012-0408	4	8
MZ09012-0606	6	6	MZ09012-0804	8	4
MZ09012-1002	10	2			

MZ09018 (Length=94mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09018-1800	18	0	MZ09018-0018	0	18
MZ09018-0216	2	16	MZ09018-0414	4	14
MZ09018-0612	6	12	MZ09018-0810	8	10
MZ09018-1008	10	8	MZ09018-1206	12	6
MZ09018-1404	14	4	MZ09018-1602	16	2

MZ09024 (Length=114.4mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09024-2400	24	0	MZ09024-0024	0	24
MZ09024-0618	6	18	MZ09024-1212	12	12
MZ09024-1806	18	6			

MZ09030 (Length=134mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09030-3000	30	0	MZ09030-0030	0	30
MZ09030-0624	6	24	MZ09030-1218	12	18
MZ09030-1812	18	12	MZ09030-2406	24	6

MZ09036 (Length=155mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09036-3600	36	0	MZ09036-0036	0	36
MZ09036-0630	6	30	MZ09036-1224	12	24
MZ09036-1818	18	18	MZ09036-2412	24	12
MZ09036-3006	30	6			

MZ09042 (Length=175.6mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09042-4200	42	0	MZ09042-0042	0	42
MZ09042-0636	6	36	MZ09042-1230	12	30
MZ09042-1824	18	24	MZ09042-2418	24	18
MZ09042-3012	30	12	MZ09042-3606	36	6

MZ09048 (Length=196mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09048-4800	48	0	MZ09048-0048	0	48
MZ09048-0642	6	42	MZ09048-1236	12	36
MZ09048-1830	18	30	MZ09048-2424	24	24
MZ09048-3018	30	18	MZ09048-3612	36	12
MZ09048-4206	42	6			

MZ09056 (Length=223mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09056-5600	56	0	MZ09056-0056	0	56
MZ09056-0650	6	50	MZ09056-1244	12	44
MZ09056-1838	18	38	MZ09056-2432	24	32
MZ09056-3620	36	20	MZ09056-4808	48	8

MZ09072 (Length=277.5mm)					
Parts#	Power 10A	signal/2A	Parts#	Power 10A	signal/2A
MZ09072-7200	72	0	MZ09072-0072	0	72
MZ09072-1260	12	60	MZ09072-2448	24	48
MZ09072-3042	30	42	MZ09072-3636	36	36
MZ09072-4824	48	24	MZ09072-6012	60	12