

Y series high temperature thermocouple slip ring

SenRing Y series high temperature thermocouple slip rings, key materials are imported from Germany and Japan, applied to transmit power and thermocouple signal when 360° rotating, can work stably in 100~250°C high temperature working conditions such as hot roller, heating equipments... , Long time practice applications convince its excellent transmitting performance and reliable quality.



Features

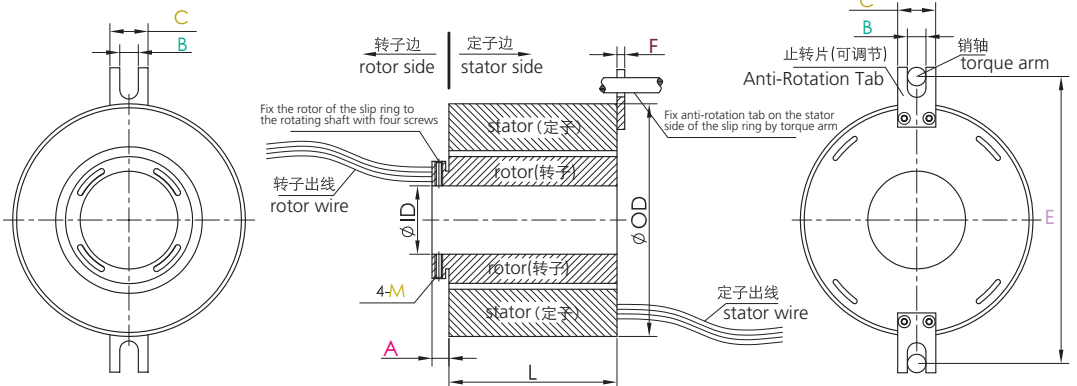
- can work stably in 100~250°C high temperature working conditions
- Can transmit various thermometry signals of PT100 and K type thermocouple, the accuracy of thermometry is less than 0.1°C;
- military super hard gold plating treatment for contact points make sure low electrical noise and long working life;
- Advantages: low torque, low loss, low electrical noise, no maintenance, etc.

Part No. Description

Y	ID	OD	power circuits	signal circuits	working temp.
Y: High Temperature Slip Ring					
Examples:					
1056	ID 10mm	OD 56mm			
2086	ID 20mm	OD 86mm			
3099	ID 30mm	OD 99mm			
4099	ID 40mm	OD 99mm			
50119	ID 50mm	OD 119mm			
60130	ID 50mm	OD 119mm			
70140	ID 70mm	OD 140mm			
80158	ID 80mm	OD 158mm			
100185	ID 100mm	OD 185mm			
					Examples: 120: 120°C 250: 250°C 420: 420°C
					Examples: 02S: 2 wires 2A signal 06S: 6 wires 2A signal
					Examples: 0210: 2 wires 10A 0620: 6 wires 20A 0830: 8 wires 30A

Examples

Y1056-06S-200: Y1056 means high temperature thermocouple slip ring (hole size 10mm, OD 56MM), 06S means 6 circuits signal (thermocouple signal optional), 200 means working temperature 200°C;
 Y3099-0210-02S-250: Y3099 means high temperature thermocouple slip ring (hole size 30mm, OD 99mm), 0210 means 2 circuits signal (thermocouple signal optional), 250 means working temperature 250°C.



Model List

Model	ID (mm)	OD (mm)	length L(mm)	Pls refer to below table according Spec Code marked on above drawing					
				A	B	C	E	F	M
Y1056	10	56	21.2+ rings no.*2.8	6	6	12	68	3	M3
Y2086	20	86	24+ rings no.*4	8.5	9.5	19.5	110	4	M4
Y3099	30	99	24+ rings no.*4	8.5	9.5	19.5	122	4	M4
Y4099	40	99	24+ rings no.*4	8.5	9.5	19.5	122	4	M4
Y50120	50	120	28+ rings no.*4	8.5	9.5	19.5	144	4	M4
Y60130	60	130	28+ rings no.*4	9	9.5	19.5	156	4	M4
Y70140	70	140	34+ rings no.*4	9	9.5	19.5	160	4	M4
Y80158	80	158	34+ rings no.*4	12	12	26	192	5	M6
Y100185	100	185	40+ rings no.*4	12	12	26	218	5	M6
Y120215	120	215	48+ rings no.*4	15	12	26	245	5	M6
Y150248	150	248	56+ rings no.*5	16	12	26	280	5	M8
Y180298	180	298	60+ rings no.*5	16	15	35	332	6	M8
Y200320	200	320	60+ rings no.*5	16	15	35	350	6	M8
Y250396	250	396	78+ rings no.*5	16	15	35	420	6	M8
Y300430	300	430	96+ rings no.*6	25	15	35	464	6	M12

"rings no." explanation: each 2A/5A signal circuit as 1 ring ,N signal circuits as N*1 rings; each PT100 channel as 3 rings, each K type thermocouple as 2 rings; each 10A circuit as 1 ring, each 20A circuit as 2 rings, each 30A circuit as 3 rings ,and so on.

For example :2 circuits signal as 2 rings,2 circuits 10A current as 2 rings,1 circuit 20A as 2 rings,2 circuits 20A as 4 rings,1 circuit 30A current as 3 rings,2 circuits 30A as 6 rings.

Technical Specification of the slip ring

Mechanical Data		Electrical Data	
spec	data	spec	data
working life	80millions for ref(depends on working conditions)	voltage range	power 0~690VAC/VDC
Rotating speed	250RPM	insulation resistance	signal 0~440VAC/VDC
working temp.	-30℃~250℃	lead wire spec.	≥1000MΩ/500VDC
work humidity	0~85% RH	lead wire length	AWG17# Silver -plated teflon
contact material	precious metal:gold-gold	Dielectric Strength	AWG22# Silver -plated teflon
housing material	aluminum alloy	Electrical noise	standard 300mm(can be customized)
torque	0.1N.m;+0.03N.m/6 circuits		800VAC@50Hz,60s
CE certificate	IP51		<0.01Ω

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:the first wire (ring 1#)starts from rotor side , such as Y1056-06S-180 wire color sequence: BLK/BRN/RED/ORG/WHT/GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....