



**CTC012-12S** slip rings are small and compact with OD 12.5mm \* L 19.5mm, standard, off-the-shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring.

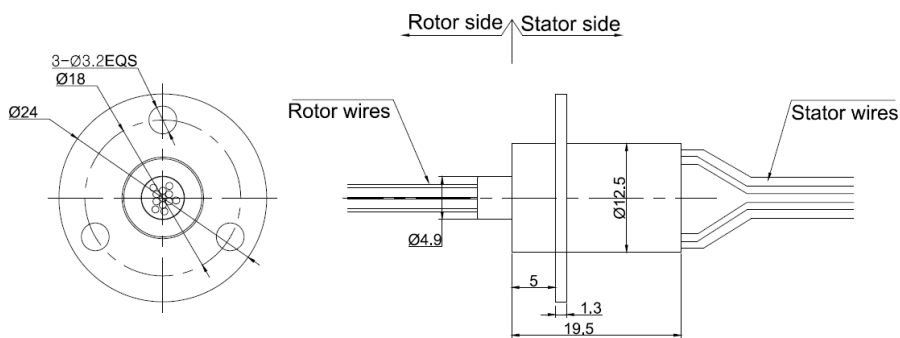
CTC012-12I is the high-end version corresponding to CTC012-12S, It has higher performance and longer working life, higher speed rotating speed, low noise.

## Technical Data

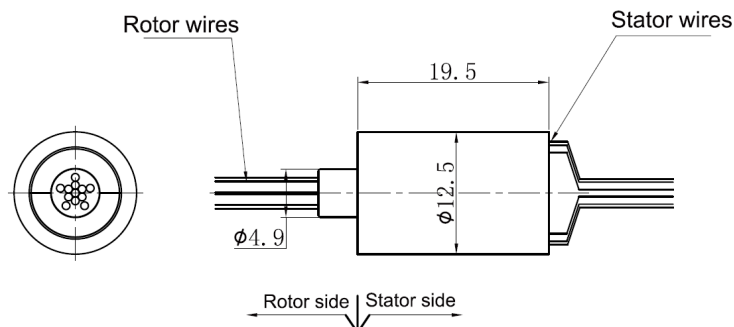
Modele	Lenght	OD	Circuits	
	mm	mm	1A/Signals	Total Wires
CTC012S-00P/12S	19,5	12,5	12	12

## DRAWING

Standard Model



Without Flange Model



Dimensions in mm

### 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

## SPECIFICATIONS

### ELECTRICAL DATA

Parameter	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥100MΩ/500VDC	≥100MΩ/500VDC
Lead Wires	AWG28#Teflon	AWG28#Teflon
Lead Length	Standard 300mm (adjustable)	
Insulation Strength	500VAC@50Hz, 60s	
Electrical Noise	<0,01Ω	

### MECHANICAL DATA

Parameter	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	See Product Quality Level Table
Torque	0,05Nm; +0,02Nm/6rings
Protection Grade	IP51

### PRODUCT QUALITY LEVEL TABLE

Products Level Code	Max Rotating Speed	Working Life	Housing Material	Electrical Noise①@10RPM
S	250RPM	>10 Million Revs	Plastics	10mΩ
I	1000RPM	>30 Million Revs	Plastics	4mΩ

## PART NUMBER COMPOSITION

**CTC** 022S - xxP/yyS - 00000 - XXXXX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Inner Dia  
② Quality Level  
S = Standard  
I = Industrial

③ Number of power wires  
④ Number of signal wires  
⑤ Flange  
00  
01  
..07

⑥ Flange Position  
O = No Flange  
R = Rotor  
I = Interior  
S = Stator

⑦ Rotor cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom

⑧ Stator cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom

⑨ Special Options  
01CAN = CanOpen  
01ECT= Ethercat  
01PRO = Profibus  
01ETH = Giga Ethernet  
IP65 = IP65  
IP68 = IP68

In accordance with our policy of continual product improvement, A2V reserves the right to amend the specification of these products without prior notification