



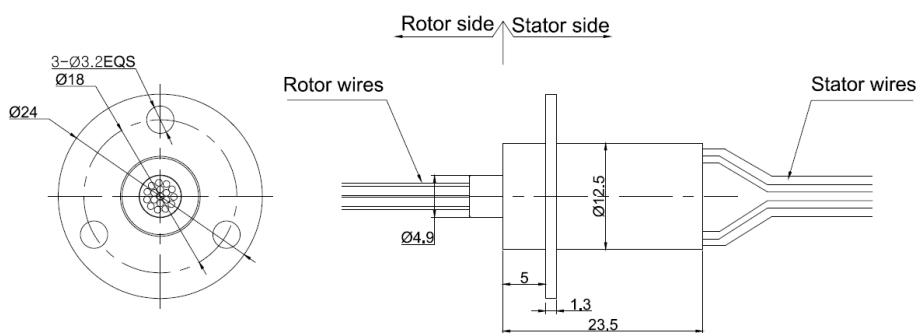
**CTC012-18S** slip rings are small and compact with OD 12.5mm \* L 23.5mm, standard, off-the-shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. Using a 90° V-groove ring design for each ring. CTC012-18I is the high-end version corresponding to CTC012-18S, It has higher performance and longer working life, higher speed rotating speed, low noise.

## Technical Data

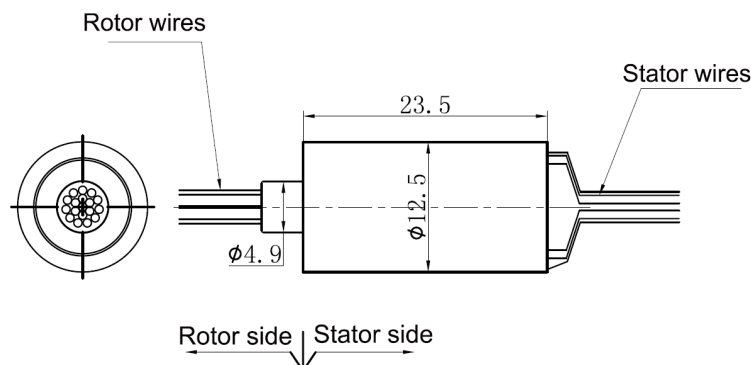
Modele	Lenght	OD	Circuits	
	mm	mm	1A/Signals	Total Wires
CTC012S-00P/18S	23,5	12,5	18	18

## 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
Ring	13	14	15	16	17	18						
Color	WHT RED	WHT BLK	WHT BLU	WHT PURPLE	WHT BRN	WHT GRN						

## 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	<0,01μ	
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