



Single Channel Fiber Rotary Joint(or Fiber Slip Ring)

CTC010 fiber optic slip ring support 1 channel fiber optic(SM/MM). It can perfectly transmit data on 360° rotating. It is also especially suitable for occasion where it needs to transmit large volume data/signal from permanent position to rotation position under unlimited, continuous or discontinuous rotating, which can improve mechanical property, simplify system operation and avoid the rotating of turning joints destroying fiber optics.

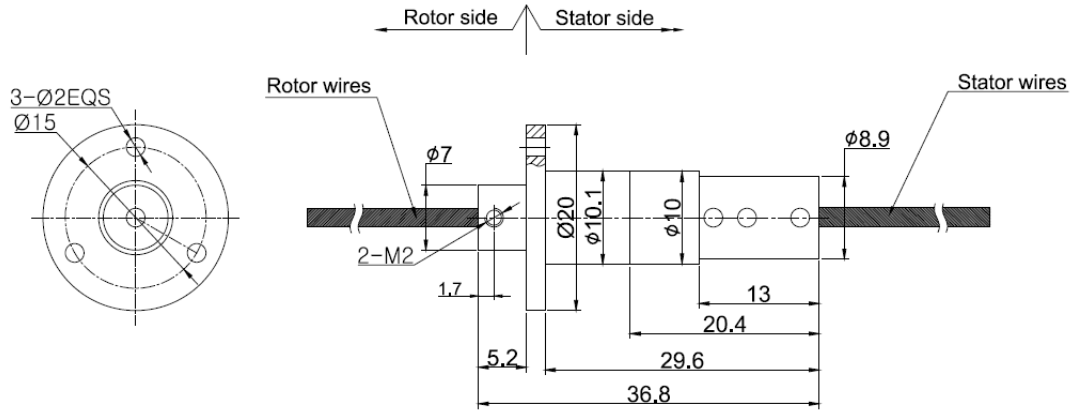
Features

- Low insertion loss, high rotation speed
- Non-contact, zero friction, long working life, 1 channel can achieve one hundred million revolutions
- Small size, light weight, high sealing class
- Fiber optic transmitting signal, no electromagnetic interference, long-distance transmission

Technical Data

Items	Type	
	Single-mode	Multiple-mode
WaveWidth (nm)	±50	
Max insert Loss, 23°C (dB)	1,2	0,7
Insert Loss Ripple (dB)	0,6	0,4
Return Loss (dB)	≥55 (No connector)	≥40 (No connector)
Max Power (W)	0,5	
Weight (g)	50	
Max speed (rpm)	12000	
Working Life	>500 million revs	
Working Temp. (°C)	-45 - 85	
Storage Temperature (°C)	-50 - 85	
Protection grade	IP65	

DRAWING



Dimensions in mm

PART NUMBER COMPOSITION

CTC 0101 - xxP/yyS - 00000 - XXXXX

1
2
3
4
5
6
7
8
9

- ❶ Inner Dia
- ❷ Quality Level
S = Standard
I = Industrial
H = High level
- ❸ Number of power wires
- ❹ Number of signal wires
- ❺ Flange
00
01
..07
- ❻ Flange Position
O = No Flange
R = Rotor
I = Interior
S = Stator
- ❼ Rotor cable length
O = 1m
X = Custom
- ❽ Stator cable length
O = 1m
X = Custom
- ❾ Special Options
Table 1

Table 1

Fiber Type Code	Fiber Connector Code	Wavelength Code
1 : 9/125um, Single-mode	FC : FC Connector	01 : 1310/1550 (Single-mode)
2 : 50/125um, Multiple-mode	ST : ST Connector	02 : 850/1310 (Multiple-mode)
3 : 62.5/125m, Multiple-mode	SC : SC Connector	
	LC : LC Connector	
	The connector face is PC by default , If APC is needed, APC should be added behind APC, such as FC/APC.	

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