SciTrue – – An Expert of Slip Ring

Mini Slip Ring

Description

▲ Miniature slip ring adopts casting or injection molding process, compact structure, mini size , mainly used for transmission of low current and various medium and low frequency signals.
▲ The Ring adopts "V" shape structure, the brush is two single wire contact with ring.
▲ The rotor and stator adopt unitary forming structure.
▲ Product concentricity reach up to 0.02mm.
▲ With max up to 100 channels(loops).
▲ Maximum transmitting current reaches to 10A.
▲ Gold to gold contact with small contact resistance and resistance fluctuation, small friction coefficient and good wear-resisting property.

Features

◆ Extremely small size
◆ Lowest rotary torque
◆ Easy installing
◆ Lowest signal loss, high reliability
◆ Gigabit Ethernet signal transmitting
◆ 1080P HD video signal
◆ possibly integrated with fiber optic rotary joint
◆ widely application fields

Typic Application

◆ Simulation turntable system
◆ Various communication systems
◆ Precision Test machines
◆ Robot
◆ various kinds of nacelle

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Operating Parameters

Items		Normal	Special
Environmental	Enclosure	IP41	IP54
	Operating Temperature	-40°C～+80°C	-60°C～+80 °C0°C～+150°C
	Operating Humidity	>95%	100%
Electric	Voltage Rating	≤48V	380V
	Current Rating	≤2A	10A
	Dynamic resistance fluctuation	≤0.01Ω	≤0.003Ω
	Insulation Resistance	200MΩ@100VDC	500MΩ@2500VDC
	Withstand Voltage	300VAC	1000VAC
Signal	Signal Types	Audio, video, digital, control, bus, current/Voltage and all kinds of differential signals	
	Number CH	≤40	≤100
	Dynamic resistance fluctuation	≤0.01Ω	≤0.003Ω
Mechanical	Rotary Speed	0～30rpm	3000rpm
	Central Thro. Bore	0	≤7mm
	Life (reference)	≥800 M. R.	≥2000 M.R.
	As difference of product size and application environment, product life is for reference only, Consult to factory.		

Optional Specification

- ◆ Outline Dimension
- ◆ Installation dimension and forms
- ◆ Shell material and surface treatment
- ◆ Cable lead fly and specifications
- ◆ Environmental Tests

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