LPMS Super Miniature Capsule Slip Rings



Electrical & Electronics		Mechanical		Environmental	
Number of Circuits	1-12 or more	Rotating Speed	0-300rpm or higher	Temperature	Industrial: -20℃~+60℃
					Military: -50℃~+80℃
Current	1A or higher	Contact Material	Gold-to-gold	Humidity	60%RH or higher
Voltage	0-48VAC/DC	Housing Material	Engineering Plastics / Metals (optional)	Protection Grade	IP40
Dielectric Strength	≥100VAC@50Hz	Torque	≤0.88 g.m (for reference)	Others	
Insulation Resistance	≥50MΩ@100VDC	Wire Type	AWG32/30# Teflon or others	Life Span	Customizable
Dynamic Contact Resistance	1mΩ min.	Wire Length	250mm (optional)		

Brief Introduction

LPMS Super Miniature Capsule Slip Ring is able to integrate 12 or more circuits, with optional outer diameter from 5.5mm~11.1mm. This series is super mini size, with precise design using military-standard material. It can adapt to both high and low ambient temperature with a low resistance and small torque. These characteristics guarantee smooth and reliable operation of the slip rings and thus able to fit in high precision equipment or other applications with limited space and harsh conditions. Representative models: LPMS-05D/08A/08B/08C/08D/12U, etc. It is able to integrate various signals: Ethernet, USB, RS, LVDS, CAN bus, Fire Wire, SDI and HDMI, etc.

Features:
◎Ultra compact size/Precise design/Military-standard material /Low resistance

Options:
◎Rotating speed/Number of circuits/Housing material/Protection grade/Length of leads and /Leads exit/Integrate power transmission

Main Applications:
◎Intelligent Robots/Commercial UAV/Manual stabilizer/VR devices

Wire Color Code

Wire Size	Ring	Color	Ring	Color	Ring	Color	Ring	Color
AWG30#/ AWG32# Silver-Plated Teflon UL	#1	BLK	#2	BRN	#3	RED	#4	ORN
	#5	YEL	#6	GRN	#7	DK BLU	#8	PPL
	#9	GRY	#10	WHT	#11	PNK	#12	LT BLU

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Model	Number of Circuits	Voltage (AC/DC)	Current (A)	OD*Length (mm)	Rotor Exposed Length (L1)	Rotor Outer Diameter (D1)
LPMS-04	4	0~48V	1A	φ7.9*10.8	3.3	φ2.5
LPMS-05	5	0~48V	1A	φ5.5*9.35	1.25	φ2
LPMS-06	6	0~48V	1A	φ7.9*11.2	3	φ3
LPMS-08	8	0~48V	1A	φ5.5*13.5	1	φ2
LPMS-10	10	0~48V	1A	φ6.8*13.5	2.1	φ2.38
LPMS-12	12	0~48V	1A	φ6.5*17.4	2	φ2.38
LPMS-15	15	0~48V	1A	φ7.6*19.1	3	φ3

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