

Capsule Power & Signal Transfer Units SPB14



Our SPB14 series capsule slip rings were originally designed for CCTV Pan & Tilt applications; however they can be used in many other automation fields which require unrestrained rotation while transferring power and / or data from a stationary to a rotating structure within an electromechanical system.

The SPB14 slip ring capsule is a standard unit that uses gold contacts at the rotary interface. For simplified electrical connections, Colour-coded lead wires are used on both the stator and rotor.

- > Smooth running
- > Low torque
- > Low electrical noise
- > Available in 6, 12, 18 and 24 circuits.
- > 2 Amp / 240 VAC per circuit (5 or 10 Amp is optional)
- > Speeds from 100 rpm up to 300 rpm continuous
- > Gold-on-gold contacts
- > Minimum 250 mm standard lead lengths
- > Compatible with data bus protocols
- > UL certified, Colour-coded, Silver-plated, Teflon insulated lead wires
- > Transfer of analog and digital signals

Main Applications

- > CCTV pan / tilt camera mounts
- > Electrical test equipment
- > Manufacturing and process
- > Control equipment
- > Indexing tables
- > Medical equipment

Specification	
Operating Speed	0 - 300 rpm *
Number of Circuits	6,12,18,24
Voltage	240V AC
Current Rating	2 amps/per circuit (5A & 10A optional)
Temperature Range	-40°C to +80°C
Contact Material	Gold
Lead Size	AWG 28 silver plated copper UL®, Teflon®
Lead Lengths	200mm minimum
Dielectric Strength	500V AC @ 50Hz, between each circuit and all others
Insulation Resistance	1000 megaohms @ 500V DC
Noise	70 milliohms max. tested @ 6V DC 50 milliamps when running @ 5 rpm

*The operational life of the unit is dependent upon rotational speed, environment and temperature

LEAD WIRE COLOUR CODES							
Ring#	Colour Code	Ring#	Colour Code	Ring#	Colour Code	Ring#	Colour Code
#1	BLK	#7	BLU (18way = BLK-BLU)	#13	WHT-BLK	#19	WHT-BLU
#2	BRN	#8	PURPLE	#14	WHT-BRN	#20	WHT-PUP
#3	RED	#9	GRY	#15	WHT-RED	#21	WHT-GRY
#4	ORN	#10	WHT	#16	WHT-ORN	#22	CRYSTAL
#5	YEL	#11	PINK	#17	WHT-YEL	#23	BLK-RED
#6	GRN	#12	DRD (18way = WHT-BLU)	#18	WHT-GRN	#24	BLK-BRN

TABLE		
No OF WAYS	LENGTH	PART No
6	19.2mm	GA4175-06
12	26.43mm	GA4175-12
18	35.03mm	GA4175-18
24	42.53mm	GA4175-24

