

Slip Ring Capsules (Compact)

AC6305

AC6310

Compact in various circuit configurations

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint.

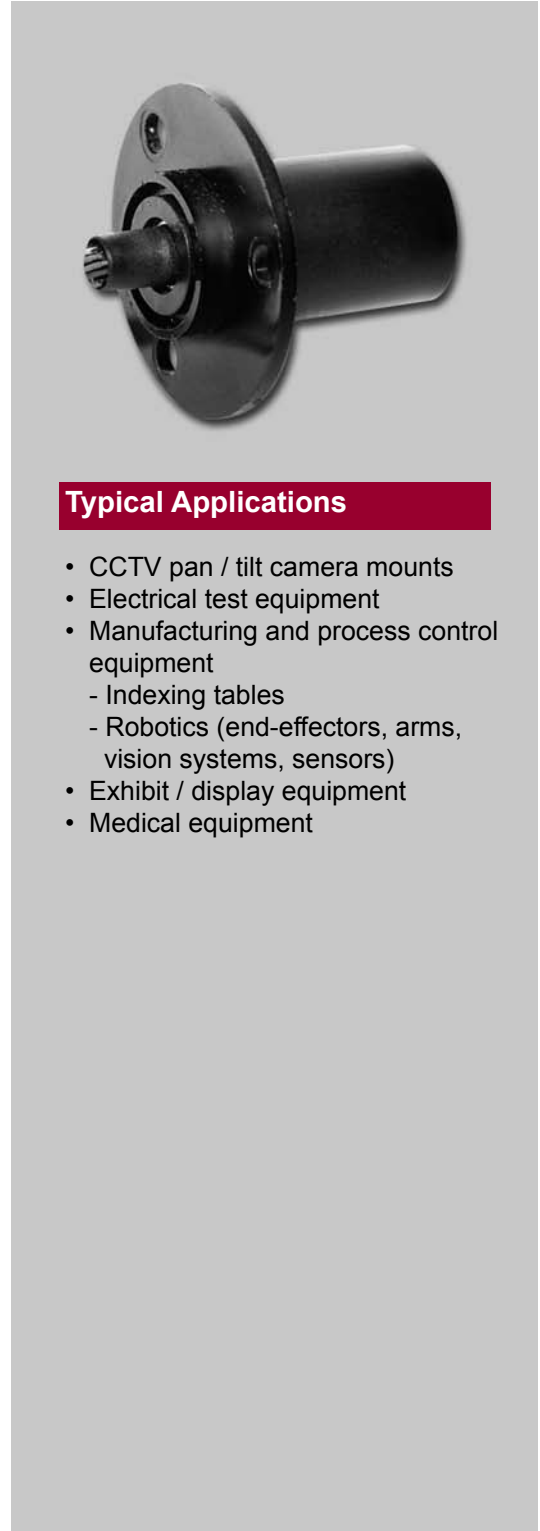
The AC6305 provides three, 5 amp circuits combined with 6, 9, or 12 signal (2 amp max) circuits. The AC6310 provides three, 10 amp circuits and 3 or 6 signal circuits. This compact power and signal handling design provides unique capability for many challenging applications.

Features

- 6, 9, 12 and 15 circuit models
- 5 amp / 2 amp and 10 amp / 2 amp circuit combinations
- Precision ball bearings meet or exceed life requirements for most commercial applications
- Speeds up to 250 rpm continuous
- Compact size: 1.38 inch long
- Gold-on-gold contacts
- 12, 24, 36, 48 inch standard lead lengths (longer lead lengths are available)
- Sealed units are also available (dust and light splash only)
- Flexible silver-plated copper, color-coded, Teflon® insulated lead wires
- Fully compatible with both analog and TTL control level signals
- Also available with 6, 12, 18, and 24, 2 amp rings. Please refer to AC6023 data sheet.

Benefits

- Smooth running
- Low torque
- Compact
- Very low noise (electrical)
- Quick shipment



Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
 - Indexing tables
 - Robotics (end-effectors, arms, vision systems, sensors)
- Exhibit / display equipment
- Medical equipment

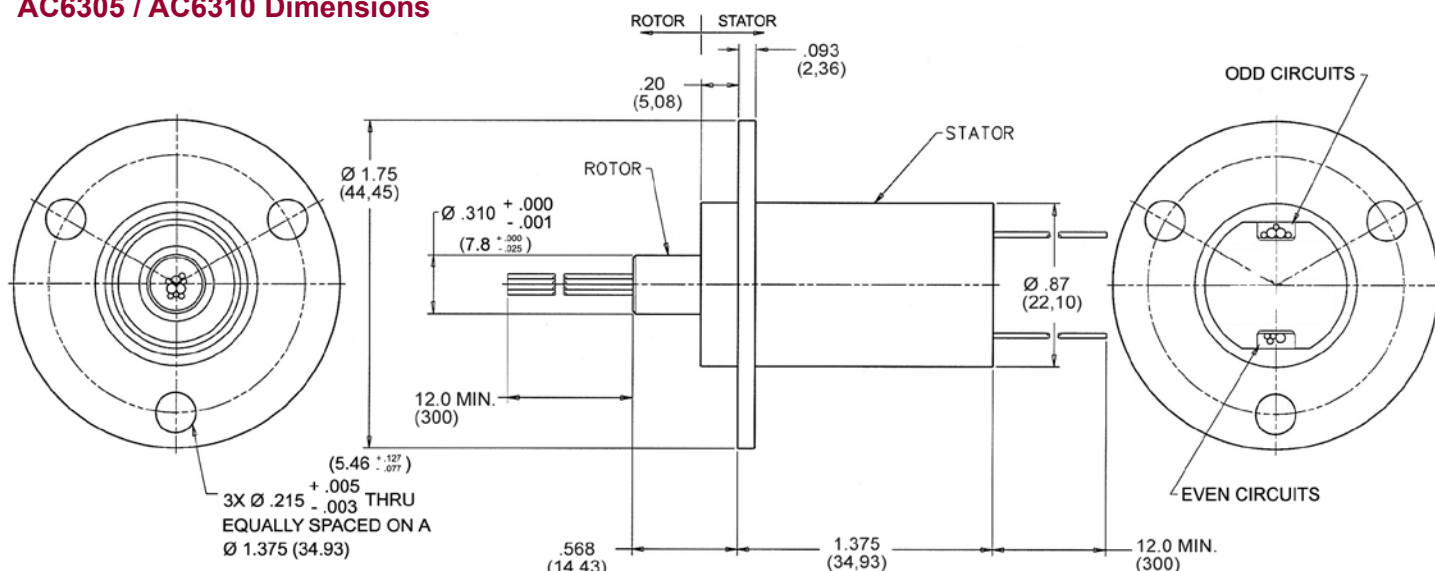
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Specifications			Options
	AC6305	AC6310	<ul style="list-style-type: none"> Splash seals for dust and moisture resistance
Operating Speed	250 rpm* continuous	250 rpm* continuous	
Number of Circuits	3 @ 5 amps and 6, 9, or 12 @ 2 amps	3 @ 10 amps and 3 or 6 @ 2 amps	
Lead Lengths	12, 24, 36 and 48 inches	12, 24, 36 and 48 inches	
Lead Size / Type	2 amp, 26 gauge silver plated copper, Teflon® 5 amp, 20 gauge silver plated copper, Teflon®	2 amp, 26 gauge silver plated copper, Teflon® 10 amp, 16 gauge tin plated copper, Teflon®	
Voltage	120 VAC	120 VAC	
Max Ambient Temp.	-40°C to +80°C	-40°C to +80°C	
Contact Material	Gold	Gold	
Current Rating	5 amps and 2 amps / ckt	10 amps and 2 amps / ckt	
Dielectric Strength	250 VAC @ 60 Hz, between each circuit and all other circuits	250 VAC @ 60 Hz, between each circuit and all other circuits	
Insulation Resistance	1000 megohms @ 500 VDC	1000 megohms @ 500 VDC	
Noise	60 milliohms max. tested @ 6 VDC, 50 milliamps when running @ 5 rpm	60 milliohms max. tested @ 6 VDC, 50 milliamps when running @ 5 rpm	

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature.

AC6305 Lead Wire Color Codes					AC6310 Lead Wire Color Codes				
	Ring #	Color Code	Ring #	Color Code		Ring #	Color Code	Ring #	Color Code
20 AWG TAGGED LEADS	1	BLK	9	GRN	16 AWG TAGGED LEADS	1	BLK	9	GRN
	2	BLK	10	BLU		2	BLK		
	3	BLK	11	VIO		3	BLK		
	4	BLK	12	GRY		4	BLK		
	5	BRN	13	WHT		5	BRN		
	6	RED	14	WHT-BLK		6	RED		
	7	ORN	15	WHT-BRN		7	ORN		
	8	YEL				8	YEL		

AC6305 / AC6310 Dimensions



Dimensions in inches (millimeters)