

Model 159

Slip ring

Description

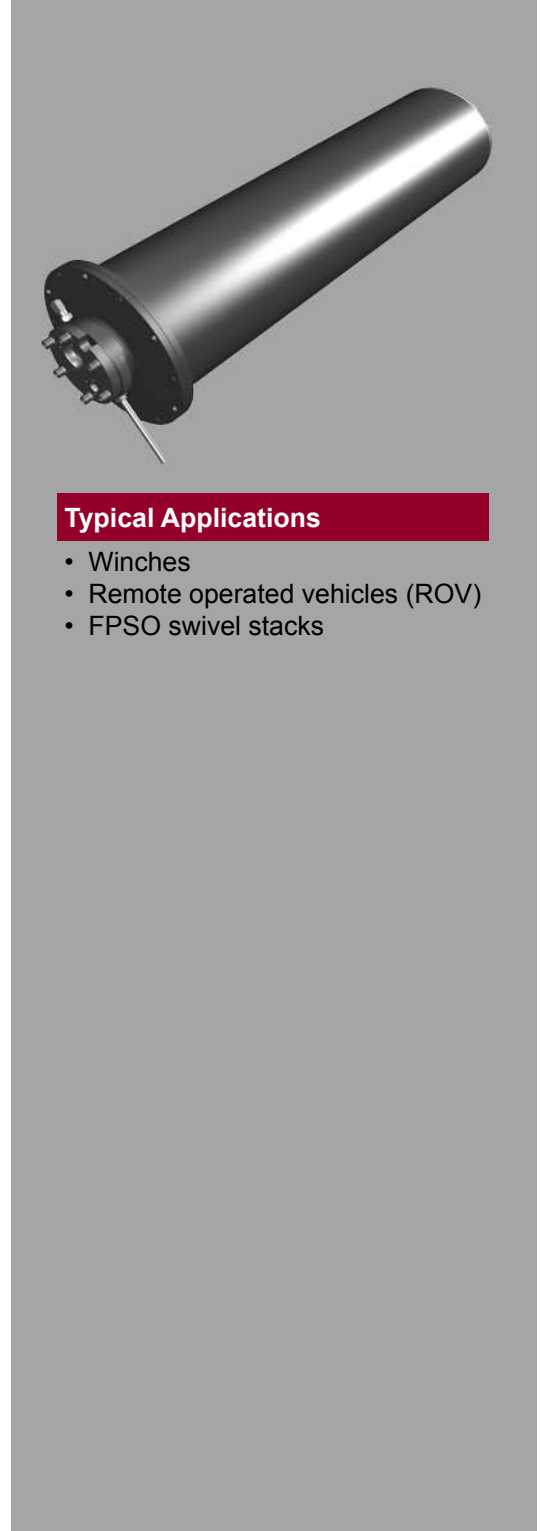
The Model 159 is the solution for higher current applications. Designed to accommodate up to 660 amps total current, the 159 can be customized to fit specific requirements. Incorporating both power and signal transfer into a single unit provides the needed versatility for marine, industrial, and defence applications.

Features

- Stainless steel housing for rugged environments
- Slip ring design provides sealing to IP66 requirements
- Can accommodate a variety of wire and cable types
- Hazardous area certification available
- Power and signal transfer integrated into a single unit

Benefits

- Each unit is designed, manufactured, and tested in accordance with the highest quality standards
- Maintenance free operation
- Proven, reliable, long life performance
- Integration with fiber optic rotary joints and fluid rotary unions to provide a complete rotating interface solution



Electrical	
Voltage	Maximum 3500 VAC
Current	Maximum 60 A per pass ¹ Maximum 660 A total current ²
¹ Higher current ratings possible by wiring passes in parallel	
² All current ratings based on a 20 °C ambient temperature	

Electrical Power Performance	
Flashover Voltage	14 000 VAC
Insulation Resistance ¹	Minimum 500 MΩ @ 1 kVDC
Short Circuit Rating	2.2 kA / 1s, 5.6 kA peak
¹ Value dependent on wire type	

Electrical Signal Performance	
Contact Resistance	20 mΩ nominal
Insulation Resistance ¹	Minimum 500 MΩ @ 1 kVDC
Insertion Loss (Nominal) RG59 coax	1.5 dB maximum up to 30 MHz
Crosstalk (Nominal) RG59 coax	-15 dB maximum up to 30 MHz
¹ Value dependent on wire type	

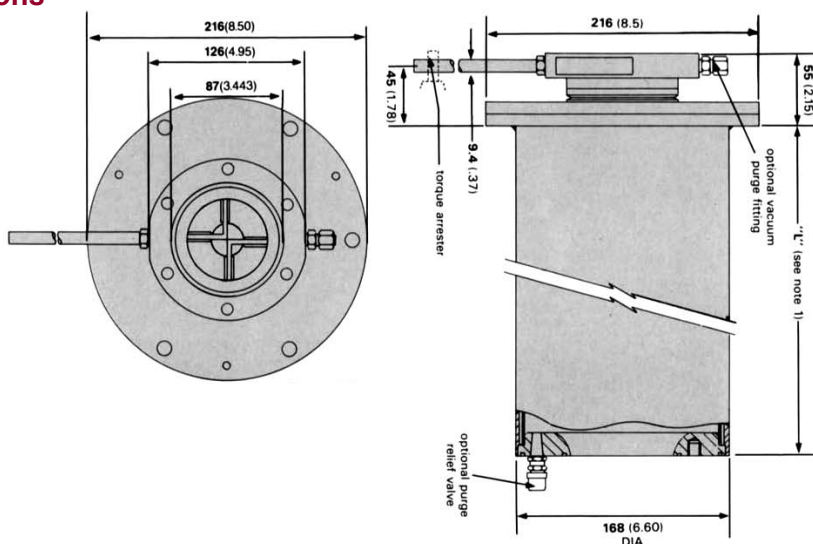
Mechanical	
Rotation Speed	Maximum 50 rpm continuous ¹
Ingress Protection	IP 66
Operating Temperature	-20 °C to + 55 °C
Housing	Stainless steel (304)
Length "L"	Varies with number of electrical passes
¹ Higher rotational speeds possible. Please consult factory.	

Hazardous Area Option	
KEMA Certification (Model 295-X)	ATEX Cc Ⓜ II 2 G EEx d IIB T5 (in accordance with ATEX directive 94 / 9 / EC)

Terminations	
Standard	Loose wire pigtailed, 10 ft [3.0 m] in length
Flange & Cable Covers	Various entry threads and orientations available
Cabled Pigtailed	Tinned copper braid and heat shrink installed over loose wire pigtailed
Special ¹	Supply and installation of connectors, terminals, conduit, cable, glands, junction boxes
¹ Integration of customer supplied product possible	

Additional Options	
Fiber Optics	Fiber Optic Rotary Joint (FORJ) or Optical Converter
Fluid	Fluid Rotary Union (FRU)
Design Certification	ABS, DNV, BV, LRS
Submersed Applications	Fluid filling fittings or fluid filled/pressure compensated at factory Internal pressure compensation
Other Devices ¹	RF Rotary Joint, Shaft Encoder, Sensors, Heater or Heat Trace Cable
Ingress Protection	IP 68
Extended Temperature Range	
¹ Integration of customer supplied product possible	

Model 159 Dimensions



Dimensions in inches [millimeters]