

Slip Rings

Model 129

Slip ring

Description

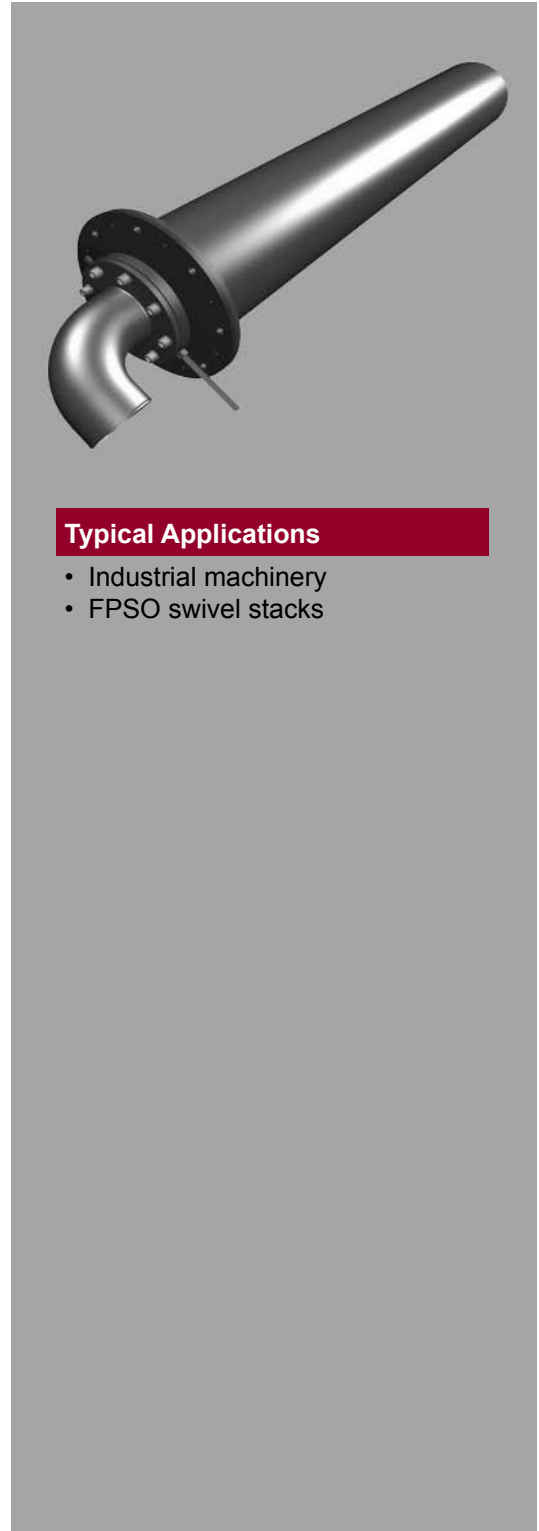
The Model 129 is a power slip ring used in marine and industrial applications worldwide. When rugged environments demand reliable, continuous operating performance, the 129 is the slip ring of choice. Capable of transmitting up to 5000 volts and 175 amps per slip ring pass, the 129 can reliably transfer power across a rotating interface.

Features

- Stainless steel housing provided for rugged environments
- Hazardous area certification available
- Power and signal transfer integrated into a single unit

Benefits

- Each unit 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



Typical Applications

- Industrial machinery
- FPSO swivel stacks

Electrical	
Voltage	Maximum 5000 VAC
Current	Maximum 175 A per pass ¹ Maximum current not specified 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	24 000 VAC
Insulation Resistance¹	Minimum 500 MΩ @ 1 kVDC
Short Circuit Rating	11 kA / 1s, 17 kA peak
Other Devices¹	RF Rotary Joint, Shaft Encoder, Sensors
² Value dependent on wire type	

Electrical Signal Performance	
Contact Resistance	20 mΩ nominal
Insulation Resistance¹	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 Minimum 100 MΩ for shield passes	

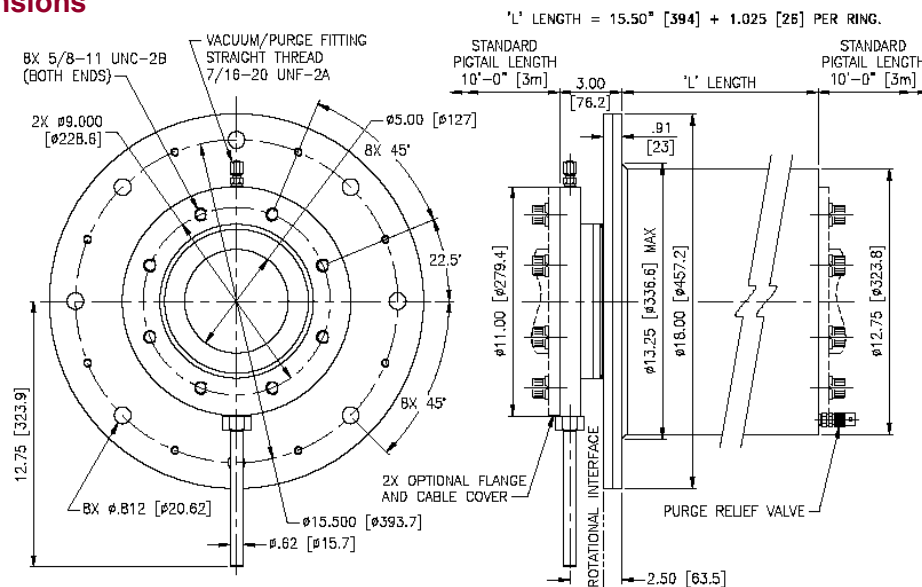
Mechanical	
Rotation Speed	Maximum 50 rpm continuous ¹
Protection Class	IP 66
Operating Temperature	-20 °C to + 55 °C ²
Housing	Stainless steel (304)
Length "L"	Varies with number of electrical passes
¹ Higher rotational speeds possible. Please consult factory.	

Hazardous Area Option: Model 129X	
CSA Certification	Class 1, Group C, D
KEMA Certification (Model 295-X)	ATEX Cc Ⓜ II 2 G EEx d IIB T5 (in accordance with ATEX directive 94 / 9 / EC)
Can be supplied with purge fittings for use with a certified purge system	

Terminations	
Standard	Loose wire pigtails, 10 ft [3.0 m] in length
Flange & Cable Covers	Various entry threads and orientations available
Cabled Pigtails	Tinned copper braid and heat shrink installed over loose wire pigtails
Special¹	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 Devices¹	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 129 Dimensions



Dimensions in inches [millimeters]