

# WIND TURBINE SLIP RING WITH FIBER OPTIC ROTARY JOINT (WP7286-5N)

Superior reliability with high data rate transfer for existing GE wind turbines



WP7286-5N is Moog's next generation pitch slip ring for GE\* wind turbines by incorporating a fiber optic rotary joint. The FO286 allows for higher data rate transfer providing smoother transmission with no interruption. This slip ring design enables GE wind assets to operate with higher productivity and a lower cost of operation. This eliminates costly downtime related to pitch slip ring issues and required maintenance.

The WP7286-5N is specifically engineered for retrofitting into GE existing wind turbine models. The -5N incorporates a smaller footprint and weighs less than the competition. It has been further enhanced to improve performance, simplify installation, and maintain serviceability of the fiber optic rotary joint.

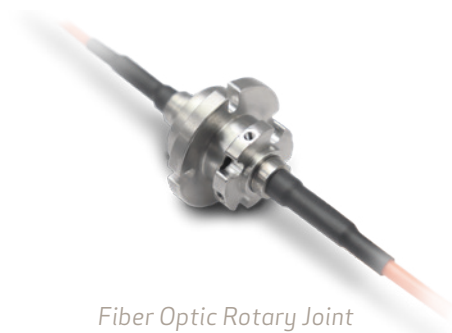
## Direct Slip Ring Replacement

Moog's family of WP7286 pitch control slip rings are a direct replacement product line for GE\* turbines. The design bolts to the existing gearbox and provides numbered terminal blocks to match the turbine wiring harness.

\*GE Energy ([www.ge.com/energy](http://www.ge.com/energy)) is one of the world's leading suppliers of power generation and energy delivery technologies.



*Slip Ring*



*Fiber Optic Rotary Joint*

## SLIP RING FEATURES/ADVANTAGES

- Maintenance free for 100 million revolutions
- Generates minimal wear debris
- Incorporates fiber brush technology
- No lubrication required
- Wide operating temperature
- Lower life cycle cost
- High reliability
- Improved sealing to keep the slip ring area cleaner, extending life and operation
- Handle for easier lift and install
- IP65 sealed enclosure
- Heater for cold weather installations
- Adjustable terminal block locations in rotor junction box for flexibility with umbilical cable length

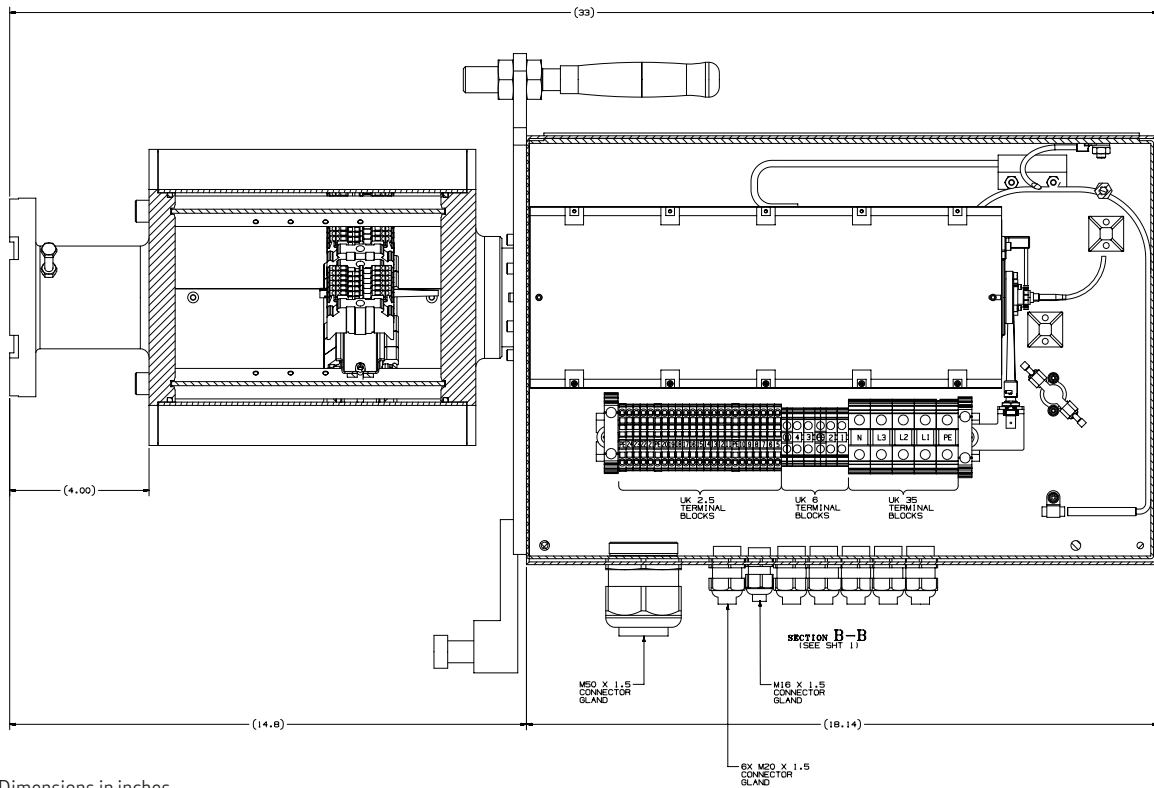
## FIBER OPTIC ROTARY JOINT FEATURES/ADVANTAGES

- Fiber optic output allows for higher data transfer rate
- 2.3 MW or higher
- Passive bidirectional device
- Stainless steel, aluminum or anodized aluminum housing
- Ruggedized design

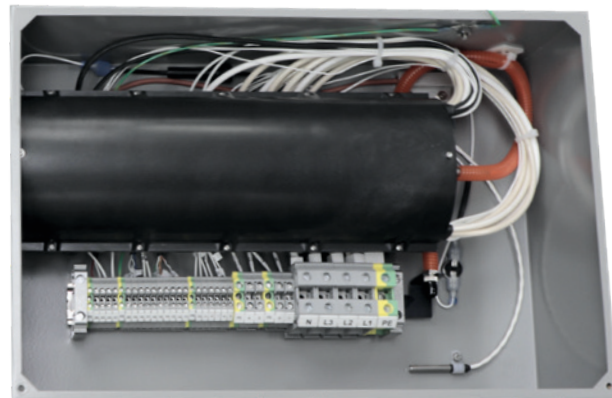
# SPECIFICATIONS

## TECHNICAL DATA

Part number	Weight	Brush/Ring material	Brush/Ring life	Lubrication	Operating temperature	Heating element	Sealing
<b>WP7286-5N</b> GE turbine 100 A/400 V 1.X/2.X	26.80 kg (59 lb)	Silver	>100 million revolutions	None required	-40 to +80°C (-104 to +176°F)	13 watt, 240 volts standard	IP65 (slip ring box enclosure)



Dimensions in inches



Moog has offices around the world. For more information or the office nearest you, contact us online.  
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Moog WP7286-5N Slip Ring Technical Datasheet  
MCM/Rev.-, September 2024, Id. CDL67634-en

For product information, visit  
[www.moog.com](http://www.moog.com)

This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

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