Pepperl+Fuchs invented and introduced the first inductive proximity sensor in 1954. Over the years, we expanded our product portfolio to include ultrasonic, photoelectric, and capacitive sensors, rotary encoders, vision systems, All-interface, RFID, and barcode systems, and a comprehensive selection of sensor technologies for wind energy applications.

Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—whenever you need us.

Contact
Pepperl+Fuchs Inc.
1600 Enterprise Parkway
Twinsburg, OH 44087 · USA
Tel. +1 330 486-0001 · Fax +1 330 405-4710
E-mail: fa-info@us.pepperl-fuchs.com

Webiste Headquarters
Pepperl+Fuchs GmbH · Mannheim · Germany
E-mail: fa-info@de.pepperl-fuchs.com

USA Headquarters
Pepperl+Fuchs Inc. · Twinsburg · USA
E-mail: fa-info@us.pepperl-fuchs.com

Asia Pacific Headquarters
Pepperl+Fuchs Pte Ltd · Singapore
E-mail: fa-info@as.pepperl-fuchs.com

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www.pepperl-fuchs.com
**COMPETENCE AT A GLANCE**

Pepperl+Fuchs has over 10 years of experience in delivering reliable sensors to the wind power industry worldwide, with a valued supplier to many of the top wind turbine manufacturers in the world.

In partnership with valued customers, Pepperl+Fuchs has developed unique solutions to address the special requirements and specifications of the wind energy market.

Together with leading industry certification agencies TÜV and Germanischer-Lloyd (GL), Pepperl+Fuchs is an active participant in the development of performance and test standards for both onshore and offshore wind applications.

Our stability as a world leader in presence and position sensing ensures a long-term partnership with our valued customers.

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**FIELD-PROVEN SENSORS FOR WIND ENERGY APPLICATIONS**

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**MAIN SHAFT DECENT RATE MONITORING**

- **Inductive Proximity Sensors**
  - 100% fault detection
  - No moving parts!
  - Reliable
  - 360° angular resolution
  - IP protection class

- **Rotary Encoders**
  - 1% maximum deviation
  - Fast, robust, and durable
  - High-precision class
  - High-precision class

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**SERVICE HOIST CONTROL**

- **Inductive Proximity Sensors**
  - Fault of closed detectors
  - Wide variety of housing and operating styles
  - Cost-effective
  - Robust

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**LEVEL MONITORING FOR GEARSBOX LUBRICATION AND COOLANTS**

- **Vibracon Sensors**
  - 100% fault detection
  - No moving parts!
  - Reliable
  - 360° angular resolution
  - IP protection class

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**GENERATOR RPM MONITORING**

- **Inductive Proximity Sensors**
  - Sensor position in 10% division
  - Robust
  - Life expectancy of encoder
  - Stable operation
  - IP protection class

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**BRACE PAD POSITION/WEAR MONITORING**

- **Inductive Proximity Sensors**
  - Sensor position in 10% division
  - Robust
  - Life expectancy of encoder
  - Stable operation
  - IP protection class

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**LIFT CAB POSITION DETECTION**

- **Vibracon Sensors**
  - 100% fault detection
  - No moving parts!
  - Reliable
  - 360° angular resolution
  - IP protection class

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**POSITION CODING SYSTEMS**

- **Position Coding Systems**
  - Sensor position in 10% division
  - Robust
  - Life expectancy of encoder
  - Stable operation
  - IP protection class

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**LASER DISTANCE MEASUREMENT SYSTEMS**

- **Position Coding Systems**
  - Sensor position in 10% division
  - Robust
  - Life expectancy of encoder
  - Stable operation
  - IP protection class

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**INDUSTRIAL APPLICATIONS**

- **Position Coding Systems**
  - Sensor position in 10% division
  - Robust
  - Life expectancy of encoder
  - Stable operation
  - IP protection class

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**COMPETENCE AT A GLANCE**

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