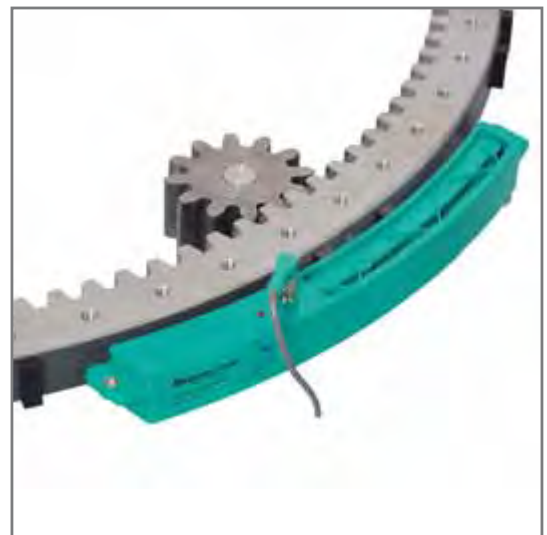


# ROTATIONAL MEASUREMENT IN HEAVY MACHINE CONSTRUCTION

## PCI INDUCTIVE POSITION CODING SYSTEM



## PCI IN ACTION – NO MAINTENANCE DIRECTIONAL SYSTEM

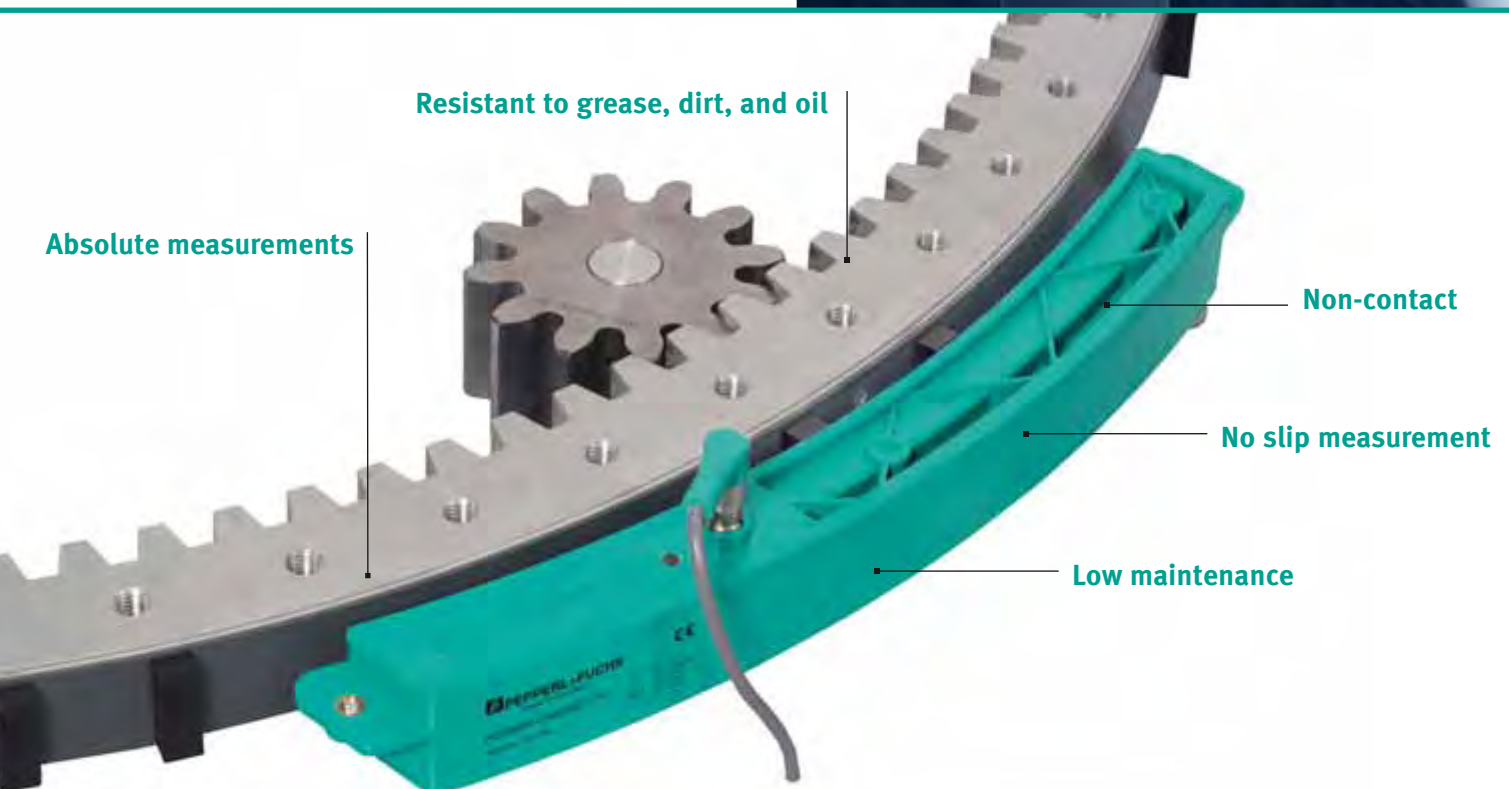


Solar panels on solar tracking systems automatically track the position of the sun to yield maximum energy depending on the time of the year and the length of the day.

The rotor on a wind turbine must always be aligned in the direction of the wind to extract the highest possible energy yield. Adjustments in the blade angle regulate the speed of the rotor.



## RENEWABLE ENERGY







The rotary joint on the vertical axis is the central mechanical element of a crane system. Precise control of the rotation saves energy and optimizes the logistics process.

Inaccessible working areas can be accessed via ladders or lifting platforms. In applications of this kind, exact positioning is essential to ensure that work proceeds efficiently.

## MOBILE EQUIPMENT

The non-contact PCI inductive position coding system detects the rotation angle of rotary joints and slew rings in heavy machine construction. It operates without making contact and is not subject to slip or mechanical wear. There is no risk of metallic particles adhering to the coding system because the position is detected without using magnets. The system is not affected by bearing grease, dirt or oil due to the large reading distance. Accurate detection allows for the optimization of process movements and saves time and valuable energy. The PCI offers improved reliability and operation reducing the number of service calls and significantly reducing the system operating costs.

### TECHNICAL DATA

General data	
Bearing diameter	500 mm ... 4,000 mm
Measurement range	1,500 mm ... 12,500 mm
Read distance	up to 5 mm
Nominal ratings	
Resolution	0.5 mm
Repeatability	± 1 mm
Temperature drift	max. ± 1 mm, within a range of -30 °C to 50 °C
Read cycle	≥ 30 ms
Read speed	Approx. 20 mm/sec at maximum resolution
Electrical and mechanical data	
Operating voltage	18 V DC ... 30 V DC
Interface	RS232
Degree of protection	IP67

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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 – wherever you need us.



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