

SENSOR TECHNOLOGY FOR SOLAR TRACKING APPLICATIONS











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Pepperl+Fuchs is a leading developer and manufacturer of electronic sensors and components for the global automation market. We continuously set new standards in quality and innovative technology.

Using precise positioning technology, our sensors are the key to reliability and efficiency in solar power generation systems.

Pepperl+Fuchs sensors provide the signals to continually move photovoltaic arrays or mirrors to follow the sun, thus, maximizing the efficiency of solar power generation. Choose from our standard product range or a customized solution developed to your specific needs.

Our experts will help you select the appropriate sensing technology.

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ROTATION

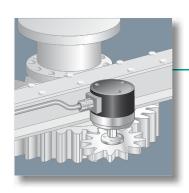
SENSING SOLUTIONS FOR ROTATIONAL ADJUSTMENT (AZIMUTH)

MNI40 MAGNETIC INCREMENTAL ENCODER

- Complete encapsulation against harsh environmental conditions
- Operating temperature -40 °C ... 100 °C
- Self-diagnostic and assistance function facilitates adjustment
- Ultra rugged up to 200 g shock resistance, 40 g vibration resistance
- Up to 3600 pulses per revolution

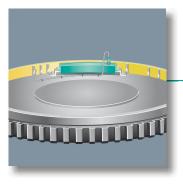
ABSOLUTE ROTARY ENCODERS

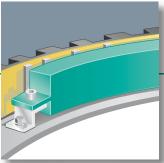
- Absolute position with high precision up to 30 bit resolution
- Absolute position maintained even through loss of power
- Single turn and multiturn versions available
- Wide variety of interfaces, including CANopen and DeviceNet

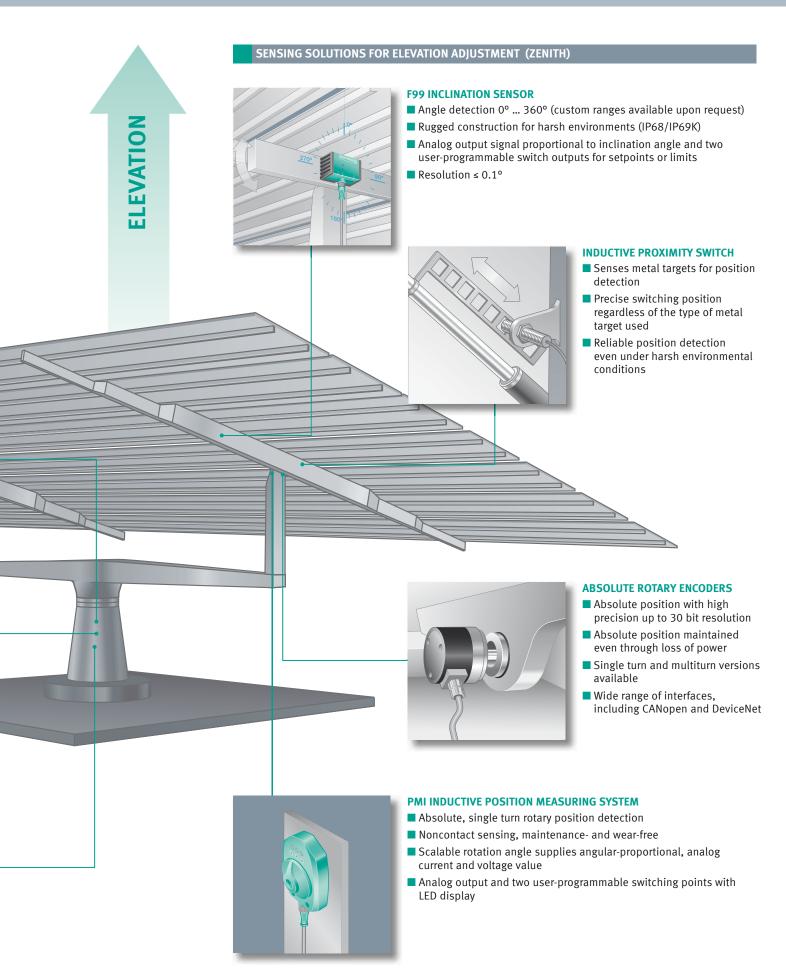


PCI INDUCTIVE POSITION CODING SYSTEM

- Determines absolute angular position by noncontact inductive detection of steel pins on a code rail
- Resistant to humidity, dirt and changes of temperature, thus extremely reliable and wear-free
- Absolute position capability makes it suitable for energy-saving, intermittent system operation
- Customized housing and interface configurations available







PEPPERL+FUCHS – YOUR TRUSTED PARTNER

Extreme performance, durability and reliability are prerequisites for all key components used in solar energy applications. This is the only way to achieve high operating efficiencies required in today's competitive energy market. Pepperl+Fuchs' field-proven sensors and rotary encoders meet these demanding requirements, providing dependable performance in even the most challenging environments and applications.

Our experts will help you select the appropriate sensing technologies for your specific application. You can choose from our broad product range available from a single source. Additionally, we offer you a comprehensive selection of industrial and mechanical accessories.

With locations on six continents our global presence enables Pepperl+Fuchs to offer you the best of both worlds: extremely high engineering and service standards combined with flexible manufacturing capabilities. We have exactly what you need to make your solar systems efficient, rugged and reliable.



Contact

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