

PSC-360 Piher´s contactless sensor

Traditionally, Magnetic Sensors´ performance has been challenged by components´ tolerances, thermal and magnetic fluctuations which needed complex designs and circuitry to solve fluctuations in output signals. This could discourage OEMs from designing in these sensors.

The Programmable Hall Effect technology used by Piher is only sensitive to the flux density coplanar with the IC surface thus eliminating all those problems and enabling low-cost contactless sensors to be manufactured for extreme environments including the automotive and industrial markets.

Limitations of potentiometric solutions such as wear and limited electrical angle are overcome by this compact design, robust sensor which enjoys virtually endless mechanical life (maintenance free) and up to 360° electrical angle (without dead band).

The angular information output is selectable between Analog (12-bit), programmable pulse width modulation (12-bits) and Serial Protocol (14-bits signal + diagnostic). Furthermore full redundancy can be achieved by employing a dual core version or the simple placement of two sensors within the housing.

The fact that a configurable switch output is integrated within each sensor and positive slopes & one negative slope can be programmed in the same transfer characteristic are never-seen-before features in conventional Hall Effect Sensors. Special shafts & connectors can be used according to customer´s request.

Typical applications for Piher contactless sensors are:

- Non-Contacting long life angle/position sensor
- Absolute Rotary Position Sensor
- Industrial Joysticks
- Marine sensors & controls
- Brake Position Sensor
- Throttle/EGR Valve and Gear Position Sensor
- Height & suspension Sensor
- Non-Contacting Potentiometer
- Float-Level Sensor
- Motor-shaft Position Sensor
- Precision Robotics, industrial equipment and HVAC monitoring & control...

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Piher is a specialist manufacturer of position sensor and control solutions for the worldwide Land Vehicle and Appliance markets. Our products are typically employed for HVAC (Climate Control), AFL (Adaptive Front Lighting), Infotainment and Seat Memory & Heating in the Automotive industry and for Human Interface applications in the Consumer Electronics, Major Appliances, Power Tools and Industrial/Instrumentation markets. www.piher.net

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