Piher Sensing Systems - Amphenol Sensors

**BENEFITS**

- Value added proposition:
  - Engineering design-in support.
  - Cable harness and connector assembly.
  - Output customization.
  - Manufacturing capabilities for high and low volume programs.

- One-stop solution provider for different position sensing technologies (hall-effect, inductive, capacitive and contacting).

- One-stop sensor provider not limited to Position sensors (Temperature, Gas & Moisture, Pressure, etc.) with diverse product portfolio of standard and customized products.

- Piher Sensing Systems has a global footprint through Amphenol Sensors providing local customer support.
## End-of-shaft sensing

You know the benefits of contactless rotary position sensors—long-life and high accuracy. But finding a drop-in, cost-effective alternative to your existing contacting solution can be a struggle.

To give you the flexibility you need, we’ve created Pin Sensors—
No core in the pin. Sensing pin length: 0.125” or 0.25”.
No internal springs or ferrous cores. Pin Sensors are PIN-type sensors.

### End-of-shaft sensing

- **Any shaft diameter**
- **Any dimension**
- **Any output protocol**
- **Any industry**

## Through shaft sensing

- **Slimline, low cost, long life, 360° sensing for extreme environments**
- **Using the magnet’s pull effect**
- **No mechanical engagement required**

### Through shaft sensing

- **Any diameter**
- **Any position**
- **Any output protocol**

## Play resistant

The variable gap sensor creates immunity to noise and allows play on mobile shafts where significant misalignment results in poor operational performance and failure. Interference between the magnets is minimal.

- **A round or arc magnet on 260° or 360° rotation angle is unimpaired**
- **Attached to rotating parts of the machine, such as boom levers, skirt, nock buckets and fork arms, the electronics module in the chassis (or vice versa)**
- **Items, other than the magnets from the electronics module**

### Play resistant

- **Any magnet diameter**
- **Up to 7° turning play**
- **Easy to service/maintain**
- **Possible or on casters in between a fixed distance**

## Touchless magnetic

Our touchless sensors feature two independent magnetic modules containing the large magnet and the small magnet, respectively, in a SMD configuration. The sensor is a ferrite contactless sensor due to the physical connection between the electronics (electronics element and target magnet) moving apart. This type of sensor produces a stronger magnetic field and is more durable in a variety of conditions.

- **Designed to be fitted in harsh environment applications, such as off-highway and marine due to the fully loaded electronics and magnets**

### Touchless magnetic

- **Touchless contactless**
- **Easier installation**
- **Easy to maintain**
- **Stability and error in positioning feedback**

## Agriculture & Forestry

- **Pedal sensor**
- **Steering wheel angle**
- **Pedal by-wire**

## Material handling

- **Joystick control**
- **Hand throttle position**
- **Pedal sensor**
- **Steer-by-wire**

## Construction

- **Joystick control**
- **Pedal sensor**
- **Steer-by-wire**
- **Seat belt position**

## Marine

- **Throttle position**
- **Power trim & lift angle**
- **Crankshaft & camshaft position sensors**
- **Joystick control**