

# Application Note

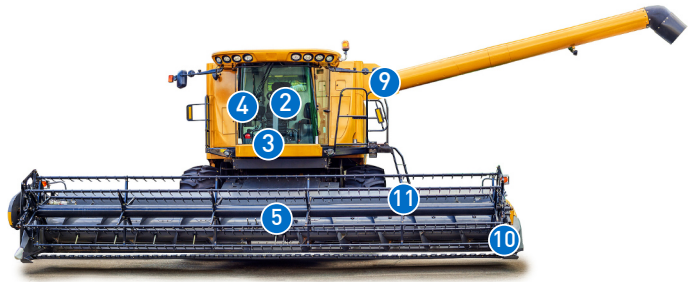
## Agricultural Vehicles - Tractors and Combine Harvesters

### POSITION AND SPEED SENSORS FOR HARSH ENVIRONMENTS

Tractors, combines and agricultural machinery need to perform in even the harshest environments. At the same time operator safety has to be guaranteed at all times. Our sensors perform despite extremes in vibration, shock and temperature and deliver reliable position feedback to ensure the precise movement of wheels, implements and the entire vehicle.

#### Automatization in off-highway vehicles

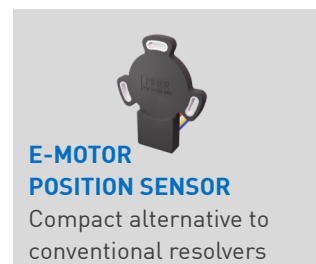
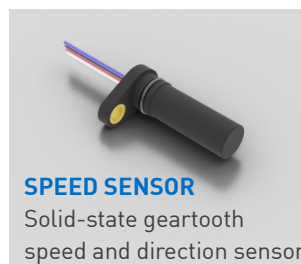
Our sensors enable automated monitoring, increased levels of safety and productivity and pave the way to remotely controlled and fully autonomous off-highway vehicles.



#### APPLICATIONS

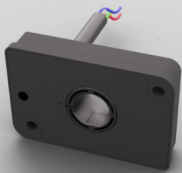
1	Wheel angle
2	Steering wheel angle / Steer-by-wire
3	Pedal position / Break-by-wire
4	Arm rest controls / Hand throttle
5	Hitch / Implement position
6	Transmission speed
7	Seat position
8	Inductive e-motor rotor position
9	Folding auger position
10	Cutter bar and reel position
11	Cutter bar folding position
12	Rear hitch position

### FEATURED PRODUCTS



## CUSTOM SOLUTIONS

In addition to our range of standard sensors, we offer custom developments and accompany our customers from the initial idea to series production and beyond. Our customers appreciate the close collaboration, fast implementation and our ability to develop exactly the right product for their needs.



### MULTI-TURN POSITION SENSORS

Developed according to functional safety requirements provide absolute position feedback for steering wheels.



### PLAY RESISTANT ARC POSITION SENSORS

Durable and accurate position sensing of large articulated joints that adapts to changing air gap between fixed and moving part.



### SPRING-LOADED SENSOR WITH INTEGRATED CONNECTOR

Automatically returns to the initial position of measurement.

### CUSTOMIZATION OF OFF-THE-SHELF SENSORS

We adapt our range of standard sensors to your need: connector assembly, specific electrical angle, lever, custom shaft size, integrated switch...

## OUR COMMITMENT

Piher Sensing Systems is an expert for contactless position sensors. Our sensors are used by many of the leading manufacturers of agricultural and construction vehicles and their rugged design ensures high performance and reliability for years of operation. As part of Amphenol, we combine the flexibility and entrepreneurship of a medium-sized company with the financial and technological support of a multinational corporation. This enables us not only to provide first-class service, but also to continuously invest in new products, technologies and production processes and thus in the technological and economic competitiveness of our customers.

[www.piher.net](http://www.piher.net)



## CONTACT

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