

# Hall-effect Speed Sensor



Piher's flange mount gear tooth speed sensors have been designed to precisely calculate the speed and direction in demanding environments such as vehicle's transmission.

In-house R&D interdisciplinary teams dive deep to help you solve complex challenges thanks to over 60 years of experience and leadership in tried and tested technologies.

Custom product design packaging can be easily provided to meet any form, fit and function including the choice of wire harness and interface connector.

Please contact Piher for further details.

## Applications

- Vehicle transmission
- Wheel speed
- Engine speed
- Anti-lock braking systems
- Speedometers
- Automation systems. Anti-lock braking systems. Camshaft & crankshaft speed / position / direction. Flow meter, Anti-Skid / traction control. Speedometers. Tachometers. Linear & rotary encoder. Conveyor belt speed and distance. Hoist speed and direction. Pump speed feedback. Stop motion detector. CNC machines. Sprocket speed. Counters. Wind turbines.

## Features and benefits

- Speed and direction feedback
- Wide operating temperature of up to 150°C [302°F]
- Compact and rugged for automotive & industrial areas
- Sealed for harsh environments: IP67
- Resistant to moist and high vibration environments such as engines, transmissions, brakes and chassis systems
- Output:
  - A/B signal
  - Two wire current source
- ESD protection
- Easily customisable cable or connector interface
- Fast and near zero speed sensing capable

## Specifications for the two wire current source standard versions

Airgap	1.5mm
Max. installation torque	50 in-lbs (for a 1/4 - 20 bolt or M6 X 1)
Operating voltage range	4-24 VDC
Supply current	typ. 8.5mA
Operating Temperature	-40° to 150° C
Storage Temperature Range	-55° to 150°C
Output Risetime	10µS
Output Falltime	10µS
Bulk Current Injection	ISO 11452-4 (2011) 1MHz to 400MHz; 100mA
Conducted immunity	ISO 7637-2 (2011)
ESD	ISO 10605 (2008) ±8kV
Conducted Emissions	CISPR 25 (2008)
Maximum Speed	10kHz

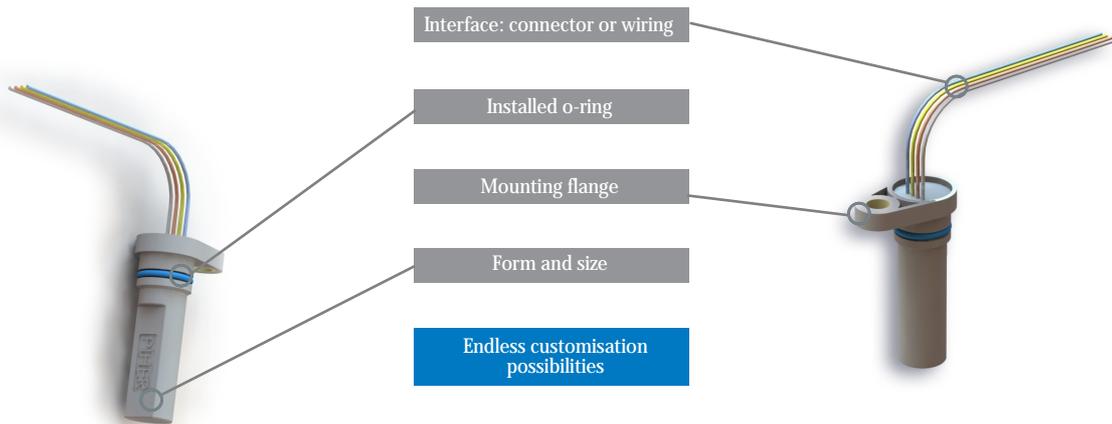
Other technical specifications available. Check at [sales@piher.net](mailto:sales@piher.net)



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## Infinite customisation possibilities

Custom product design packaging can be easily provided to meet any form, fit and function including the choice of sealing degree of protection, wire harness and interface connector.



## Our Advantage Value added proposition



Engineering design-in support



Global footprint



Output customization



Cable harness and connector assembly



Diverse portfolio of standard and customized sensors with different Position Sensing technologies (Hall-effect, Inductive, Potentiometers and Printed Electronics)



Manufacturing capabilities for high and low volume programs



One-stop sensing solution supplier for:

Position	Pressure
Temperature	Gas & Moisture



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