

Chassis Suspension Angle & Headlight Leveling Sensor (MSH105)

Model: MSH105-001 Series

Product Overview

Non-contact Hall-effect angular displacement sensor for active chassis suspension leveling, headlight beam height adjustment, and axle load sensing.

Key Features

- 360° contactless Hall angular measurement with zero mechanical wear
- Ball-joint linkage arm designed for harsh under-chassis environment
- Dual redundant analog 0.5-4.5V or PWM output signals
- Operating angular range: $\pm 30^\circ$, $\pm 45^\circ$, or $\pm 60^\circ$
- Robust aluminum and PA66-GF30 housing resistant to road salt and gravel impact

Typical Applications

- Automotive & Commercial Vehicles
- Industrial Machinery & Automation
- Electric Vehicles (EV & FCEV)
- Safety Interlocks & Control Systems

Technical Specifications

Parameter	Specification / Technical Value
Supply Voltage	5.0V $\pm$ 0.25V DC
Output Signal	0.5V to 4.5V ratiometric / PWM (200Hz)
Angular Range	$\pm 45^\circ$ (Customizable $\pm 30^\circ$ to $\pm 60^\circ$)
Linearity	$\pm 1.0\%$ FS
Operating Temp	-40°C to +125°C
Protection Rating	IP67 / IP69K