

Non-Contact Hall-Effect Angle & Linear Displacement Sensors (MA10013 / MA30005 / MD990035)

360° Programmable Hall Rotary Angle Sensors & 42mm Linear Stroke Displacement Sensors

Product Overview

Misensor Hall-Effect Angle and Displacement Sensors measure rotary shaft angle (0° to 360°) or linear stroke displacement (0 to 42mm+) without physical contact between the magnet and the Hall IC. Featuring 12-bit/14-bit resolution, ±0.5% FS linearity, and IP67/IP68 sealing for harsh mobile machinery.

Key Features

- True non-contact 3D Hall / AMR sensing with infinite resolution
- Programmable angular range from 15° up to 360° continuously
- Single or dual redundant outputs: 0.5-4.5V, PWM, SSI, RS485
- 42mm Linear Displacement Sensor for clutch, brake pedal, etc.
- Anodized aluminum or glass-filled PBT housing with IP67/IP68

Typical Applications

- Throttle valve, EGR valve & steering angle feedback
- Agricultural tractor hitch, header height & boom angle
- Automotive clutch actuator & suspension ride-height

Technical Specifications & Model Selection

Model	Sensor Type	Measuring Range	Supply Voltage	Output Signal	Linearity	Protection
MA10013 (MD990083)	Throttle Angle Sensor	0° - 90° / 120°	5.0V ± 0.5V DC	0.5-4.5V Ratiometric	±0.5% FS	IP67
MA30005	Agricultural Angle Sensor	0° - 120° / 180°	5.0V / 9-30V DC	0.5-4.5V DC	±0.5% FS	IP67 / IP68
MD990035	Heavy-Duty Angle Sensor	0° - 90° / 360°	5.0V DC	0.5-4.5V / PWM	±0.5% FS	IP67 / IP68
MI-LDS-42	Linear Displacement	0 - 42mm Stroke	5.0V / 12V DC	0.5-4.5V / PWM	±1.0% FS	IP67