MISENSOR TECH CO., LTD.

Sensors | Switches | Reed Relays (IATF 16949 Certified)

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Electronic Accelerator Pedal Sensor (MSH103)

Model: MSH103 Series

Product Overview

Drive-by-wire dual-redundant contactless Hall-effect foot pedal sensor for commercial trucks, electric buses, agricultural machinery, and forklifts.

Key Features

- Dual independent Hall sensors for fail-safe redundancy (Output 1 & Output 2)
- Linear ratiometric 0.5·4.5V output curves with cross-check verification
- Integrated dual return springs with high-reliability mechanical kick-down
- Pedal angle displacement: 0° to 22° full stroke
- Compliant with ISO 26262 functional safety and FMVSS 124 standards

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 ± 0.25V DC (Dual independent channels)
Output Signal	Channel 1: 0.5·4.5V / Channel 2: 0.25·2.25V
Angular Stroke	16° to 22°
Operating Temp	-40°C to +85°C
Protection Rating	IP67 sealed electronics
Mechanical Life	> 10,000,000 full pedal actuations