

Electronic Accelerator Pedal, Hand & Rotary Throttle Sensors (MSH103 / MSH104)

Non-Contact Dual-Redundant Hall-Effect Electronic Throttle Controls for Commercial Vehicles & Off-Highway

Product Overview

Misensor MSH103 and MSH104 series electronic throttle sensors utilize non-contact programmable Hall-effect angle ICs to provide dual-channel redundant ratiometric voltage outputs (APS1 & APS2) or CAN J1939 messages. Engineered for heavy-duty trucks, buses, excavators, agricultural tractors, and forklifts.

Key Features

- Non-contact Hall-effect sensing - zero potentiomet...
- Dual independent redundant outputs (APS1 = 2 x APS...
- Available in Floor-Mount / Suspended Foot Pedal, H...
- Over 5,000,000 full-stroke actuation cycles; IP67 ...
- Compatible with Bosch, Cummins, Weichai, Yuchai & ...

Typical Applications

- Heavy-duty commercial trucks, electric buses & spe...
- Construction excavators, loaders, cranes & road ro...
- Agricultural harvesters, tractors & electric forkl...

Technical Specifications & Model Selection

Model	Throttle Style	Supply Voltage	Output Signal (Ch1 / Ch2)	Mechanical Angle / Travel	Protection	Life Cycles
MSH103-001 / 002	Foot Pedal / Hand ..	5.0V ± 0.5V DC	Ch1: 0.75-3.84V / ..	18°-25° Pedal Travel	IP67	>= 5,000,000
MSH104-001 / 002	Heavy-Duty Hand Th..	5.0V ± 0.5V DC	Dual Ratiometric +..	0°-65° Lever Travel	IP67	>= 5,000,000
MI-RT-01	Rotary Knob Throttle	5V / 9-36V DC	0.5-4.5V / CAN J19..	270° / 360° Rotary	IP67	>= 2,000,000