

Hall-Effect Magnetic Proximity Sensor (MSH / MR01 Series)

Model: MSH / MR01 Series

Product Overview

Solid-state 3-wire Hall-effect magnetic proximity switches offering bounce-free high-frequency switching up to 10 kHz for machine automation.

Key Features

- Contactless solid-state Hall IC technology: zero contact bounce and infinite life
- High switching frequency up to 10 kHz for high-speed motion counting
- NPN or PNP open-collector output with integrated pull-up resistor
- Threaded M8, M12, or rectangular flange mounting housings
- Built-in LED switching indicator and reverse polarity protection

Typical Applications

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

Technical Specifications

Parameter	Specification / Technical Value
Supply Voltage	4.5V to 28V DC
Output Type	NPN or PNP Open Collector (Max 25mA)
Switching Frequency	0 to 10 kHz
Operating Distance	5mm to 25mm with standard magnet
Operating Temp	-40°C to +85°C (+125°C optional)
Protection Class	IP67 sealed body