MISENSOR TECH CO., LTD.

Sensors | Switches | Reed Relays (IATF 16949 Certified)

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Seat Belt Buckle Latch Sensor

Model: SBBS Series

Product Overview

Non-contact Hall-effect and reed switch sensors integrated into seat belt buckle latches for Seat Belt Reminder (SBR) safety interlocks.

Key Features

- Magnetic non-contact detection immune to dust, food crumbs, and liquids
- Normally Open (NO), Normally Closed (NC), or 2-wire current output
- Miniaturized profile engineered to fit standard buckle cavities
- Automotive high-flex wiring harness with custom connectors
- Tested to >100,000 latching and unlatching cycles

Typical Applications

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

Technical Specifications

Parameter	Specification / Technical Value
Switching Voltage	5V to 24V DC
Contact Rating	10W / 0.5A (Reed) or 2-wire Current (Hall)
Operating Temp	-40°C to +85°C
Mechanical Life	> 100,000 cycles
Wire Specification	UL1007 / FLRY-A automotive grade
Protection	IP67 sealed switch body