

Automotive Seat Track Position Sensor (STPS)

Model: STPS-01 / STPS-02 Series

Product Overview

Two-wire current-loop Hall-effect seat track position sensor for intelligent dual-stage airbag deployment and driver seating position detection.

Key Features

- True non-contact Hall-effect gear tooth/vane sensing
- Two-wire current-interface output (Low: 5-7mA, High: 12-16mA)
- Compliant with SAE J1211 & US-NCAP airbag regulations
- Automotive sealed connector with IP67 protection
- Integrated reverse battery and overvoltage surge 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 16V DC
Output Mode	2-wire current loop (Low: 6mA / High: 14mA)
Operating Gap	0.5mm to 3.5mm
Operating Temp	-40°C to +85°C
Enclosure Material	PA66 GF33 flame-retardant
Protection Rating	IP67