

Seat Occupancy Mat Sensor & Belt Reminder (SMS / SBR)

Model: SMS Series

Product Overview

Flexible membrane pressure-sensitive seat occupancy sensor mat for Seat Belt Reminder (SBR) and occupant detection systems.

Key Features

- High-durability printed silver-carbon flexible membrane
- Multi-point pressure sensing matrix tailored to vehicle seat contours
- Rapid response time < 5ms under passenger load (>15kg trigger)
- Tested to >200,000 ingress/egress cycling endurance
- Waterproof and sweat-resistant PET laminated encapsulation

Typical Applications

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

Technical Specifications

Parameter	Specification / Technical Value
Trigger Threshold	15 kg to 20 kg occupant load
Contact Resistance	< 100 Ohm (active) / > 10 MOhm (idle)
Operating Voltage	12V / 24V DC automotive electrical system
Operating Temp	-40°C to +85°C
Endurance	> 200,000 seating cycles
Lamination	Double-sided sealed PET membrane