

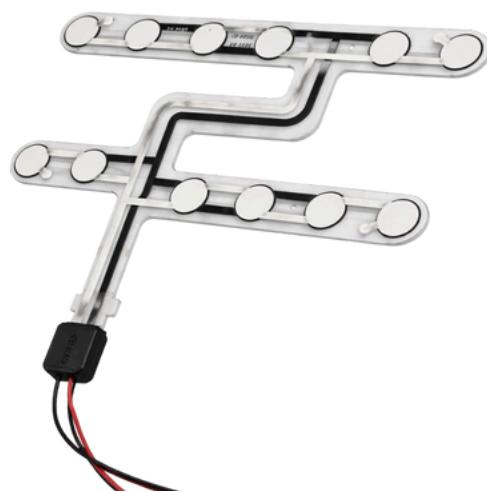
Seat Occupancy Sensor

◆ **Description :**

The Seat Occupancy Sensor is a high-performance pressure-sensitive device designed to detect and monitor the presence of a person on a seat. Ideal for automotive, office, and public seating applications, this sensor ensures safety, efficiency, and accurate occupancy detection. With its compact design, high stability, and durability, the LP4339 is suitable for integration into smart seating systems, conference halls, theaters, classrooms, and vehicle seating.

◆ **Application :**

- Car seat occupancy sensor for passenger safety systems
- Chair occupancy detection for office or smart furniture
- Conference hall or theater seat occupancy monitoring
- Smart seating for classrooms and large venues
- Monitoring stadium seating performance
- Seat occupancy monitoring devices in public spaces
- Smart seat pressure detection in automotive and industrial applications

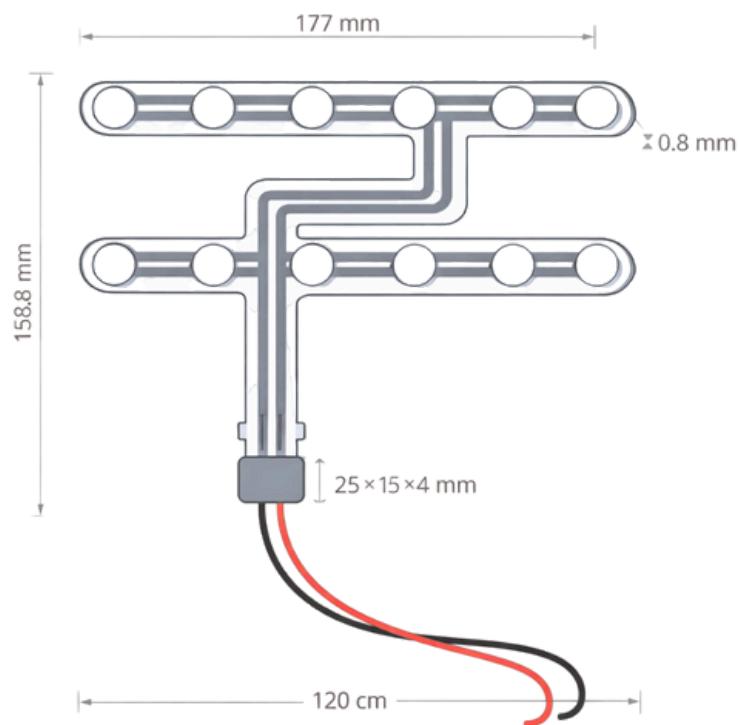


Seat Occupancy Sensor

◆ Feature :

- High sensitivity with a force range of 150g to 500kg
- Compact and customizable design for easy integration
- Low power consumption (<120 mA)
- Fast response time (7 ms) for accurate detection
- Durable and resistant to environmental factors (moisture, wear)
- Lightweight (50g) for minimal impact on seating design
- Wide working temperature range: -20°C to 80°C
- Long-lasting performance with over 10,000 operating cycles

◆ Sensor Mechanical Data :



Seat Occupancy Sensor

General Information :

| Property | Value |
|----------------------------------|---------------------------|
| Number of Sensing Points | 12 |
| Force Range | 150g to 500kg |
| Working Voltage | < 5V DC |
| Working Current | < 120mA |
| Response Time | 7 ms |
| Molded Connector (L×W×T) | 25×15×4 mm |
| Overall Dimension (L×W×T) | 177×158.8×0.8 mm |
| Working Temperature | -20°C to 80°C |
| Base Resistance | 19–23 MΩ |
| Weight | 50 g |
| High Stability | Resistant to moisture |
| Durability | > 10,000 cycles |
| Connecting Wire | 120 cm ST 2-pin connector |
| Country of Origin | India |

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❖ Datasheet Graph :

