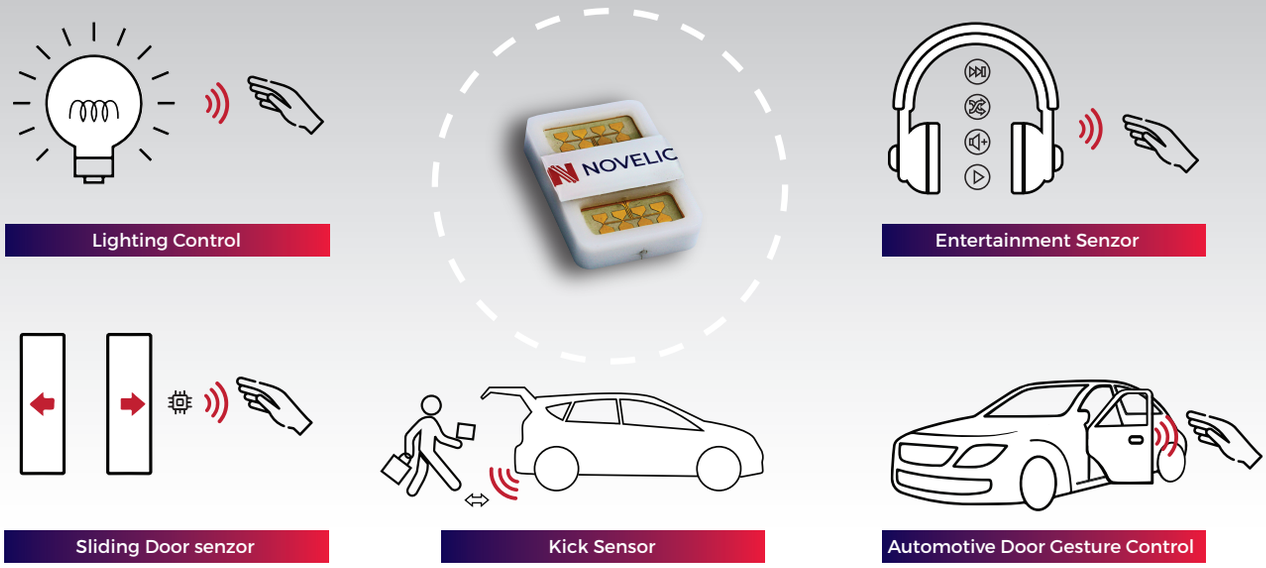
NOVELIC

GESTURE-CONTROLLED EVERYTHING

Unique Radar Motion Sensor for Contactless Control of Devices



Advanced comfort solution based on mm-wave RADAR sensors to detect simple predefined body- gestures and control various equipment

THE FIRST CHOICE FOR TOUGH ENVIRONMENTS

HUMIDITY | OIL AND DIRT | EXTREME TEMPERATURES | LIGHT INTERFERENCE | FOG AND DUST

KEY FEATURES

- Contactless operation
- Options to define specific & custom gesture event or group of events to be detected
- Seamless invisible integration with IoT connectivity option
- Robustness against light conditions
- Outperforms all types of capacitive sensors in performance and false alarm detection
- Small size for retrofit installation
- Very price competitive

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Supply voltage	3.3V -12/24V
Current consumption * *top duty cycle	<10mA
Temperature range without enclosure	-40° to + 85°
Main Interface	UART, CAN

NOVELIC DEVELOPS UNIQUE MM-WAVE RADAR SENSOR TECHNOLOGY.

NOVELIC patented technology enables miniature and cost-effective radar sensors.

THE FOLLOWING IS DESIGNED INSIDE OUR RADAR MODULE:

- mm-Wave Antenna
- mm-Wave Radar IC
- Package and Enclosure
- Embedded Module with interfaces
- Signal Processing Solution

THANKS TO ALL SUBSYSTEMS DEVELOPED IN-HOUSE WE ACHIEVE:

- Lower price
- Smaller size
- Easier customization

DETECTION CAPABILITIES

- Field of View between 60 and 180 degrees depending on requirements
- Gesture Detection from 5cm to 1m
- Distance Detection from 5cm to 20m
- Velocity
- Acceleration

Advantages of mm-Wave radar sensors

EXTREMELY LARGE FIELD-OF-VIEW

Up to 180 degrees is possible, in contrast to other state-of-art sensors. Custom solution is possible.

RELIABILITY

Better reliability and false alarm behaviour compared to capacitive and ToF sensors.

CUSTOMIZABILITY

Full customization of gesture event is possible, comprising duration, distance, direction, velocity, acceleration and movement direction

MINIATURE

Small size with capability to be easily integrated behind plastic/ textile/ glass enclosure.

ROBUSTNESS

Radar sensors can operate in harsh industrial environments. Dust, fog and dirt such as oil residue on the sensor do not influence detection performance.

TEMPERATURE INDEPENDENT

Radar is an active technology and transmits radio waves for detection of objects. This technology is fully independent of ambient temperatures and object temperatures.

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