

# SENSIT Surface Mount

wireless smart parking sensor

## Key features:

- ✓ dual detection technology (infrared and magnetic)
- ✓ 5-10 years battery life
- ✓ communication via fast and reliable network
- ✓ real-time bidirectional communication
- ✓ easy data integration using the SENSIT Interface Software



The SENSIT Surface Mount sensor is a smart parking sensor that detects the occupancy of individual outdoor parking spaces in real-time, using dual detection technology (infrared and magnetic). As part of SENSIT platform, the SENSIT Surface Mount optimizes parking utilization, reduces emissions and guarantees a fast return on investment.

The SENSIT Surface Mount can easily be glued onto the surface. Replacement can be achieved easily by removing the sensor installed in the mounting ring. With a battery lifetime of 5-10 years (depending on the application type), the SENSIT sensors have proven to be a reliable and durable parking detection solution.

Typical applications with the SENSIT Surface Mount sensor include rooftop parking and other installations where drilling sensors into the floor is not allowed (e.g. coated floors in parking facilities).

## Highly accurate detection

The weather proof SENSIT Surface Mount features earth magnetic field and infrared detection. This dual detection technology ensures highly accurate vehicle detection. A sophisticated algorithm ensures the detection is not affected by snow, dirt or leaves covering the sensor.

## Fast and reliable communication

A unique feature of the sensor is its capability to communicate wireless within a self-healing mesh network. Using a fast and reliable network of repeaters (SENSIT Relay Node) and gateways (SENSIT Gateway), the SENSIT Surface Mount sends real-time parking data to the cloud server (SENSIT Interface Software). Additionally, the ability

to communicate bidirectionally ensures that the SENSIT Interface Software can easily request and verify the latest sensor events and status updates.

## SENSIT interface Software

Using the SENSIT Interface Software API, occupancy data can be easily integrated into third party parking guidance systems, parking enforcement software or smartphone apps. The SENSIT Interface Software (SIS) forms the basis for additional services and functions such as data analysis, planning and management of e.g. loading/ unloading, truck and disabled parking spaces.

## SENSIT platform

Nedap's wireless SENSIT Surface Mount sensors detect the occupancy of individual parking spaces in real-time. The obtained parking data enables smart parking in any Smart City, ITS (Intelligent Transportation Systems) or retail environment. The SENSIT platform is specifically designed for:

- **Guidance:** guiding cars, busses and trucks to available parking bays fast and efficiently.
- **Enforcement:** providing real-time data and alerts to monitor the (ab)use of single parking bays.
- **Retail:** improving the shopping experience by guiding customers to the nearest available parking bay.

Different types of ruggedly designed sensors are available to accommodate any installation in indoor car parks, on-street spaces and road surfaces.

Technical information	SENSIT Surface Mount
Part number	9958525 SENSIT Surface Mount EU 9958533 SENSIT Surface Mount US 9963871 SENSIT Surface Mount AU
Dimensions	Mounting ring: Ø 240 mm (9.45 in) / Sensor: Ø 167 mm (6.57 in) x 35 mm (1.38 in) high
Mounting dimensions	Ø 240 mm (9.45 in) x 35 mm (1.38 in) - Glued onto the floor
Color	Sensor black / Mounting ring yellow
Weight	455 g (16.05 oz)
Protection class	IP68, completely sealed housing IK10 impact rating according to EN 60068-2-75
Material	Polyethylene (PE)
Operating temperature	-40 ... +85°C (-40...+185°F)
Storage temperature	-40 ... +85°C (-40...+185°F)
Relative humidity	100% relative humidity, non-condensing
Operating frequency	868 MHz (EU) 902 – 928 MHz (US) 915 – 928 MHz (AU)
Battery	Built in lithium battery
Expected battery life	5-10 years (under normal usage and normal circumstances / dependent on the environment)
Snowplough resistant	No
Load resistance	Regular traffic
Detection	Magnetic and infrared
Detection height	0 - 90 cm (0 - 35.5 in)
Communication distances	<ul style="list-style-type: none"> <li>• Sensor to Relay Node (directional) - max. 50 meters (164 ft)</li> <li>• Sensor to Relay Node (omni-directional) - max. 35 meters (135 ft)</li> <li>• Sensor to Gateway - max. 25 meters (82 ft)</li> </ul>
Required Relay Nodes	Car parks: 1 per 50 sensors / On-street parking: 1 per 25 sensors (estimated)
Standards	CE, FCC, IC, ACMA
Document version number	2.2