

# SENSIT IR FLUSH MOUNT

| wireless smart parking sensor



## KEY FEATURES:

- Dual detection technology (infrared and magnetic)
- Flush mount installation (snowplough resistant)
- 5-10 years battery life
- Communication via fast and reliable network
- Easy data integration using the SENSIT Interface Software

Nedap's wireless SENSIT IR Flush Mount sensors detect the occupancy of individual parking spaces in real-time. The obtained parking data enables smart parking in any Smart City, ITS or retail environment. As part of SENSIT platform, the SENSIT IR Flush Mount optimizes parking utilization, reduces emissions and guarantees a fast return on investment.

The SENSIT IR Flush Mount is installed fully flushed in each parking space, making the sensor resistant to snowploughs and avoid tripping hazards. 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.

### Highly accurate detection

The weather proof SENSIT IR Flush 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 IR Flush Mount sends real-time parking data to the cloud server (SENSIT Interface Software).

## 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. e-loading, truck and disabled parking spaces.

## Applications

SENSIT 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.

# SPECIFICATIONS

Technical information	SENSIT IR Flush Mount
Operating frequency	868 MHz (EU) 902 – 928 MHz (US) 915 – 928 MHz (AU) 920 – 925 MHz (SG)
Detection	Magnetic and Infrared
Mounting	Fully flush with the road surface
Snowplough resistant	Yes
Load resistance	Regular traffic
Mounting dimensions	Ø 78 mm [3,07 in] and 72 mm [2.8 in]
Weight	350 gram [12.35 oz]
Protection	IP68, completely sealed Housing PE
Colour	Default black
Operating temperature	-40 ... +85°C [-40...+185°F]
Storage temperature	-40 ... +85°C [-40...+185°F]
Detection height	0 ... 90 cm [0 ... 35.5 in]
Communication range	
• Sensor to Relay Node (directional)	max. 50 meters [164 ft]
• Sensor to Relay Node (omni-directional)	max. 35 meters [135 ft]
• Sensor to Gateway	max. 25 meters [82 ft]
• Relay Node to Relay Node	max. 100 meters [328 ft]
• Relay Node to Gateway	max. 10 meters [33 ft]
Power supply	Built in lithium battery
Expected lifetime	5-10 years*
Part numbers	9221166 SENSIT IR Flush Mount EU 9221174 SENSIT IR Flush Mount AU 9221182 SENSIT IR Flush Mount US
Document version number	v1.3

\* under normal usage and normal circumstances and depending on communication settings. Based on Nedap proprietary WSN.