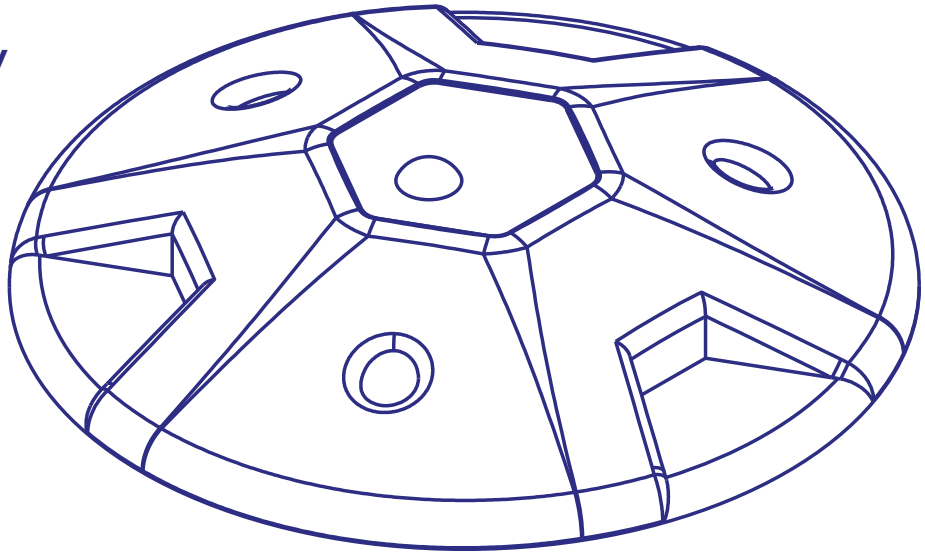
Fleximodo

IoT Parking Sensor
Standard On-surface 2.0

Detects and reports the presence or absence of a vehicle on a parking slot and enables parking management.

Best Accuracy

99,96% accuracy



Key differentiators

Electronic permitting
IoT Parking Sensors can be paired with IoT Permit Cards to provide an ID of each parker (authentication).

Data consistency
IoT infrastructure resistant to network outages – metrics are preserved after reconnection (no data loss).

Monitoring & control
Precise monitoring (with AI) of deployed devices, notifications, and seamless remote OTA control (logs, FW updates).

Detection resistance
Detection is accurate and reliable despite local interferences or frequent changes (noticing every status change).

Technical specs & features

Combined two-way sensing
Magnetometric and nanoradar with enhanced detection reliability – up to 99 %.

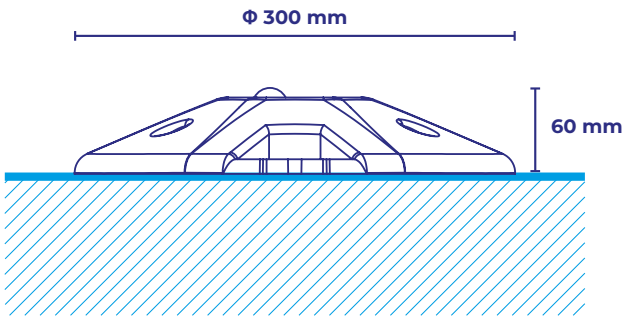
Autocalibration
Based on a robust algorithm for the magnetometer.

Own antenna design
Optimized for IoT network LoRa.

Data consistency
Resistance to connectivity outage. Data is not lost but is being transmitted after connectivity recovery.

Specification

Parameter	Value
Detection method	**3-axis magnetic field & nanoradar**
Weight	**1 kg**
Dimensions	**Φ 300 mm, ↕ 60 mm**
Casing	**Ultrasonically welded into one piece**
Ingress protection	**IP68**
Impact resistance	**IK10**
Operating temperature	**-40 to +85 °C**
Power	**3.6 V, 13 – 19 Ah**
Battery life	**See calculation on clientzone.fleximodo.com**
Network	**LoRaWAN, NB-IoT, BLE**
Manufacturer certification	**ISO 9001, ISO 14001, ISO 45001**



Casing, quality & installation

Ultrasonically welded
100% hermetic sealing with IP68 ingress protection.

Minimalistic form factor
Straightforward on-surface installation requiring minimal equipment.

AOI and RTG inspection
Electronic assembly inspected by AOI (automatic optical inspection) and RTG.

Tested and inspected
Operational lifetime of 6 years established through thermal cycling chamber (-30 to +60 °C).