

IoT Parking Sensor

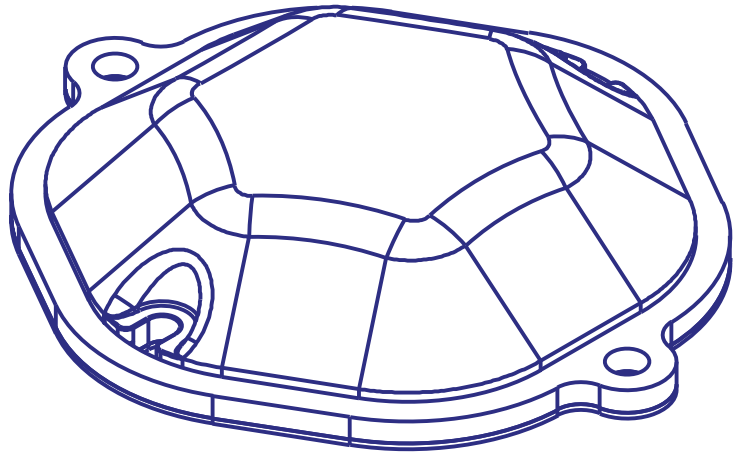
Mini Exterior 1.0

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



99,96% accuracy

Best 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

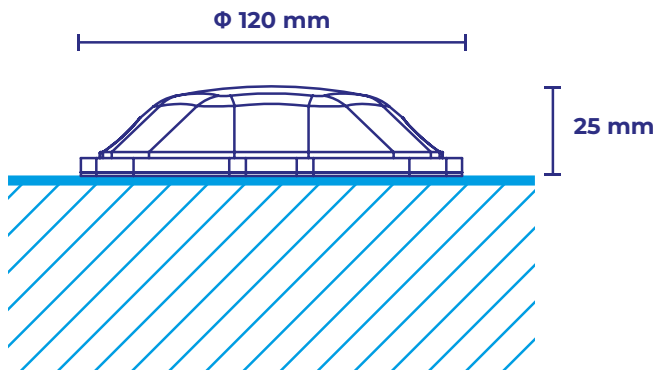
Resistance to connectivity outage. Data is not lost but is being transmitted after connectivity recovery.





Specification

Parameter	Value
Detection method	3-axis magnetic field & nanoradar
Weight	230 g
Dimensions	Φ 120 mm, ± 25 mm
Casing	Ultrasonically welded into one piece
Ingress protection	IP68
Impact resistance	IK10
Operating temperature	-40 to +85 °C
Power	3.6 V, 3.6 Ah
Battery life	See calculation on clientzone.fleximodo.com
Network	LoRaWAN
Manufacturer certification	ISO 9001, ISO 14001, ISO 45001



Casing, quality & installation

Ultrasonically welded

100% hermetic sealing with IP68 ingress protection.

Minimalistic form factor

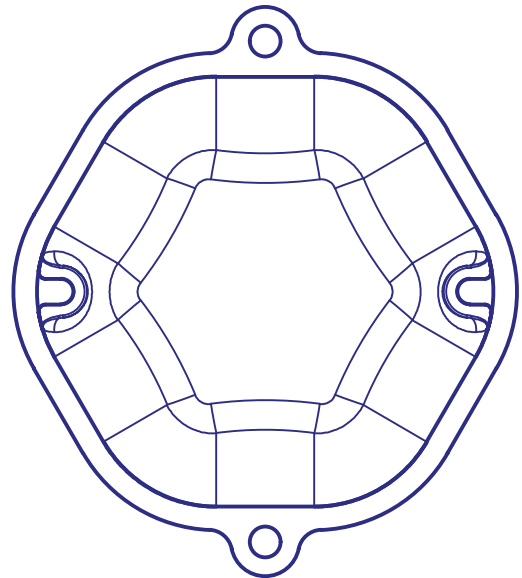
Straightforward on-surface installation requiring minimal equipment.

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).



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