NPS-4.5-FM-W - Sensor Specification Sheet

Technical Overview

Range – 3 km / 2 mi in urban areas	**Easy Maintenance Design**
Battery Life – Up to 10 years	**Small Package** – 156mm x 20mm
Hassle Free Wireless Network – we can provide and maintain the wireless infrastructure	**Streamlined Device Provisioning** – Most systems and APIs can be installed set up in under a day
Parking Access Control – SDI technology for automated billing and priority access (US Patent awarded)	**Accurate Detection in most Challenging Operational Environments** – small vehicles, EVs, EMI, rain, dirt/mud, snow (wet and dry)
Easy and Secure Configuration – calibration and firmware updates through mobile app (via Bluetooth)	**Vehicle Detection accuracy and speed** – 99.9% under 7 seconds detection time
Applications – Per-space vehicle detection and aggregate ingress / egress per lane vehicle counting	

Technical Specification

Flush Mounting	Adhesive or cement affixing into pre-drilled hole
Load Resistance	< 5,000 kg per wheel
Dimensions	Dia. 156 mm, Height 20 mm / Dia. 6”, Height ¾’’
Enclosure	UV-stabilized polycarbonate, IP68, IPx9K, Black (default)
Operating Temperature	-40 C to +85 C, 0-100% humidity
LPWAN Radio	Weightless-N, SigFox, LoRaWAN 1.0.3 Class A
Communication Range	Up to 3 km / 2 mi Urban, up to 6 km / 4 mi in Rural
Communication Frequency	ISM bands – US: 902-928 MHz, EU/UK: 865-868 MHz, AU: 915-928 MHz
Bluetooth Protocol	v. 5.1 standard + Secure Driver Identification (SDI)
Battery Life	9-10 years @ 20 parking sessions per day
Battery Type	10,800mAh, Li-SOCI2 primary cell, replaceable