



Nwave Surface Mount “Base” Model Sensor Datasheet - NPS-3.9.5-SM-W

Technical Overview

Range – 3 km / 2 mi in urban areas	Easy Maintenance Design
Battery Life – Up to 10 years	Small Package – 190mm x 20mm
Hassle Free Wireless Network – we can provide and maintain the wireless infrastructure	Fast Installation – less than a minute per sensor, including digital mapping and calibration
Parking Access Control – patent pending SDI technology for automated billing and priority access	Streamlined Device Provisioning – Most systems and APIs can be installed set up in under a day
Easy and Secure Configuration – calibration and firmware updates through mobile app (via Bluetooth)	Vehicle Detection accuracy and speed – 99.7% under 7 seconds detection time



Technical Specification

Installation Method	Adhesive or screw anchors
Load Resistance	< 5,000 kg per wheel
Dimensions	Dia. 190 mm, Height 20 mm / Dia. 7½”, Height ¾”
Enclosure	UV-stabilized polycarbonate, IP68, Black (default)
Operating Conditions	-40 C to +85 C, 0-100% humidity
LPWAN Radio	Weightless-N, SigFox, LoRaWAN 1.0.3 Class B (for 3.10 and 4.5 modifications)
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	10 years @ 20 parking sessions per day
Battery Type	13,500mAh, Li-SOCI2 primary cell, replaceable



Nwave Surface-Mount “Snowplow Resistant” Model Sensor Datasheet - NPS-3.9.5-SMR-W

Technical Overview

Range – 3 km / 2 mi in urban areas	Easy Maintenance Design
Battery Life – Up to 10 years	Small Package – 230mm x 20mm
Hassle Free Wireless Network – we can provide and maintain the wireless infrastructure	Fast Installation – less than a minute per sensor, including digital mapping and calibration
Parking Access Control – patent pending SDI technology for automated billing and priority access	Streamlined Device Provisioning – Most systems and APIs can be installed set up in under a day
Easy and Secure Configuration – calibration and firmware updates through mobile app (via Bluetooth)	Vehicle Detection accuracy and speed – 99.7% under 7 seconds detection time
Resistant to moderate snowplowing	



Technical Specification

Installation Method	Adhesive or screw anchors
Load Resistance	< 5,000 kg per wheel
Dimensions	Dia. 230 mm, Height 20 mm / Dia. 9 1/16”, Height ¾”
Enclosure	UV-stabilized polycarbonate, IP68, Black (default)
Operating Conditions	-40 C to +85 C, 0-100% humidity
LPWAN Radio	Weightless-N, SigFox, LoRaWAN 1.0.3 Class B (for 3.10 and 4.5 modifications)
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	10 years @ 20 parking sessions per day
Battery Type	13,500mAh, Li-SOC12 primary cell, replaceable



Nwave Flush-Mount Model Sensor Datasheet – NPS-4.5-FM-W

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 – patent pending SDI technology for automated billing and priority access	Seamless Operation Under Snow – Detection accuracy is not materially affected by snow (wet and dry)
Easy and Secure Configuration – calibration and firmware updates through mobile app (via Bluetooth)	Vehicle Detection accuracy and speed – 99.7% under 7 seconds detection time



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, Black (default)
Operating Temperature	-40 C to +85 C, 0-100% humidity
LPWAN Radio	Weightless-N, SigFox, LoRaWAN 1.0.3 Class B
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 years @ 20 parking sessions per day
Battery Type	10,800mAh, Li-SOCI2 primary cell, replaceable