



Virtual Loop 2.0

Model number : OVS-02GT

The Virtual Loop 2.0 is a Vehicle Presence Sensor for use on Gates and Barriers.

The advanced Distance Measuring Radar reliably detects vehicles of all sizes while ignoring nearly all human movement. Eliminate all the hassles of installing and servicing in-ground loops and give your customer reliable activation and presence for all their gate applications.



26 Feet Extended Range



No cutting, coring or drilling of concrete or asphalt required



Extremely stable under all types of weather conditions



Presence Detection for all types of vehicles

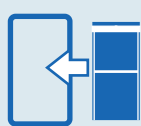


Can be programmed to ignore or detect humans based on application

Settings via
Smartphone App



Direct conduit
access

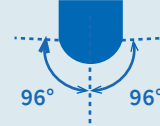


Direct installation
for single gang box



12 - 24V
AC / DC

Flexible
power supply



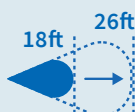
Wide angle
adjustment



Improved
built-in heater



Visible
indicator



Longer
detection range



IP66 & NEMA4

Water
resistance



2 outputs



Improved human
cancellation

Specifications

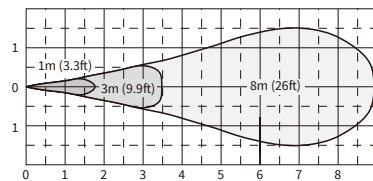
Name		Vehicle Detection Sensor (Surface mount)	
Model		OVS-02GT	
Detection method		Microwave (FCMW)	
Frequency		Microwave: 24GHz, BLE communication: 2.4GHz	
Response		MIN 500ms	
Supply voltage		12 to 24 VAC/DC	
Power consumption		Heater enabled: Up to 300mA, Heater disabled: Up to 90mA (at 24V)	
Output	Spec	1	Non-voltage solid state relay output 30VDC 0.3A or less (resistance load) (N.O./N.C.)
		2	Non-voltage mechanical relay output 30VDC 1A or less (resistance load) (N.O./N.C.)
	Delay [s]		Off / 0.5 / 1 / 2 / 3 / 4
	Hold timer [s]		Off / 0.5 / 1 / 2 / 3 / 10 / 30 / 60
	Mode		Detection / Pre-detection / Mask
	Type		Holding / Pulse IN / Pulse OUT
	Pulse time duration		150ms / 250ms / 500ms / 1s
Input	Spec	N.O. contact Non-voltage relay Input, On resistance 100Ω or less, Off resistance 200kΩ or more, Internal pull-up voltage: approx 3.3V	
	Mode	Link (OR gate) / Link (AND gate) / Inhibit / Wake	
Application		Barrier - Activation, Protection / Slide gate - Activation, Protection / Swing gate - Activation, Protection, Shadow	
Detectable vehicle speed		1.2 to 22 miles/h (2 to 35km/h)	
Device setting	Detection range		7ft (1.5m) to 26ft (8m) *20 inch (0.5m) pitch
	Main sensitivity		Level 1 to 7
	Fine tuning presence		Level 1 to 7
	Close range sensitivity		Level 1 to 7
	Side approach detection		Off / On (2.5s)
	Vibration sensitivity		Off / Low / Middle / High
	Sensitivity boost		Off / Low / Middle / High
	Sensitivity boost timer [s]		Off / 0.5 / 1 / 2 / 3 / 4 / 5 / 10 / 20 / 40
	Relay response time		Level 1 to 4
	Presence detection timer [min]		5 / 15 / 60 / 180 / Infinity
	Slide gate cancellation		Off / On
Indicator	On/Off		Switchable (with smartphone App or by holding a magnet close to the unit)
	Standard operation mode	Detection operation	Standby: Solid green, Detected: Solid red, Bad environment: Solid purple, Calibration incomplete: Solid blue
		Wake up	Wake up: Solid blue for 3 seconds
	Smart phone APP connection mode	Sensor reset	Completed reset: Blinking blue (fast) for 2 seconds
		Setting detection operation	Standby: Blinking green (slow), Detected: Blinking yellow (slow), Bad environment: Blinking purple (slow), Calibration incomplete: Blinking blue (slow)
Area check		Standby: Blinking green (slow), Pre-detected: Blinking yellow (slow), Detected: Blinking red (slow)	
Calibration		In progress: Blinking blue & green, Error unstable: Blinking red & yellow (fast), Error high reflection: Blinking red & blue (fast), High reflection: Blinking purple (for 10s)	
Ambient temperature		-22 to 122°F (-30 to 50°C)	
Operating ambient humidity		95% max (no condensation)	
Degree of protection		IP66 / NEMA4	
Installation location		Indoor / Outdoor	
Installation height		20in (500mm) from the road surface to the bottom of the unit	
Sensor angle adjustment		Left and right: ±96° (3° pitch)	
Weight		21oz (600g) including accessories	
Accessories		4pcs attached screws (2pcs Metric coarse thread M4 x 12, 2pcs Tapping screw 4 x 20), Quick reference guide	

Specifications are subject to change without notice for improvement.

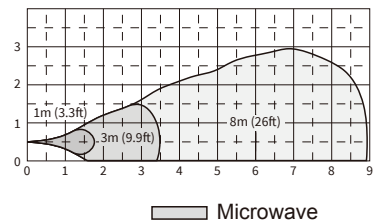
Detection Area Diagram

Top View

[Unit:m] 1m=3.3ft.



Side View

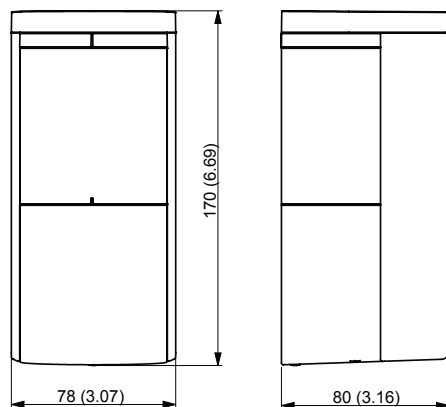


Installation height 0.5m(1.6ft.),
Operation type: Device activation,
Sensitivity: 4,

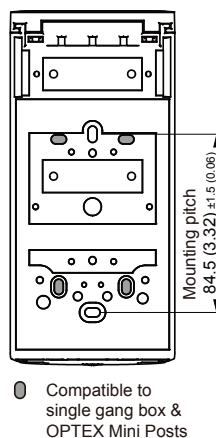
*Under normal operation, the detection area by an actual vehicle may be smaller.

Dimensions

Exposed

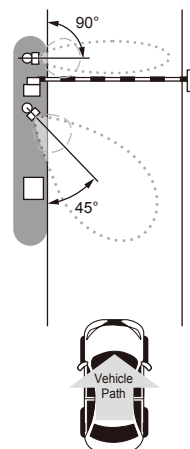


[Unit:mm(inch)]

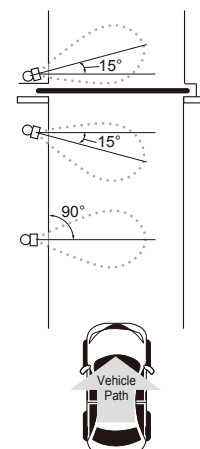


Sensor Installation Conditions

Barrier Gate



Slide Gate



Swing Gate

