

# 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







access

Visible

indicator

Direct installation for single gang box



Longer detection range



Flexible power supply



96° 96° Wide angle adjustment







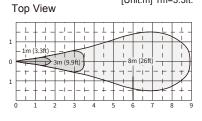
Improved human cancellation

#### **Specifications**

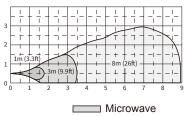
## **Detection Area Diagram**

[Unit:m] 1m=3.3ft.

Name			Vehicle Detection Sensor (Surface mount)
Model			OVS-02GT
Detection method			Microwave (FMCW)
		equency	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
	Туре		Holding / Pulse IN / Pulse OUT
	Pulse time duration		150ms / 250ms / 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
Ħ	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
		Sensor reset	Completed reset: Blinking blue (fast) for 2 seconds
	Smart phone	Setting detection operation	Standby: Blinking green (slow), Detected: Blinking yellow (slow), Bad environment: Blinking purple (slow), Calibration incomplete: Blinking blue (slow)
	APP connection	Area check	Standby: Blinking green (slow), Pre-detected: Blinking yellow (slow), Detected: Blinking red (slow)
	mode	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
	Ac	cessories	4pcs attached screws (2pcs Metric coarse thread M4 x 12, 2pcs Tapping screw 4 x 20), Quick reference guide



#### Side View



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

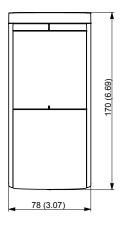
\*Under normal operation, the detection area by an anctual vehicle may be smaller.

Specifications are subject to change without notice for improvement.

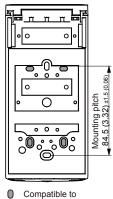
80 (3.16)

# Dimensions

#### Exposed

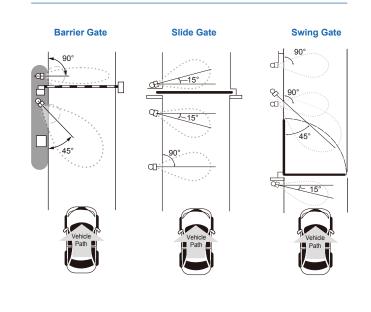


[Unit:mm(inch)]



Compatible to single gang box & OPTEX Mini Posts

### **Sensor Installation Conditions**





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