OPTEX

OVS-02GT
Virtual Loop for Vehicle Detection

The OVS-02GT 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

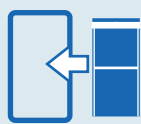Presence Detection for all types of vehicles

Can be programmed to ignore or detect humans based on application

Settings via Smartphone App
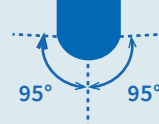
Direct conduit access

Direct installation for single gang box

12 - 24V AC / DC
Flexible power supply

95°   95°
Wide angle adjustment

Improved built-in heater
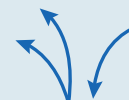
Visible indicator

Gray   Black
Color variation

IP66
Water resistance

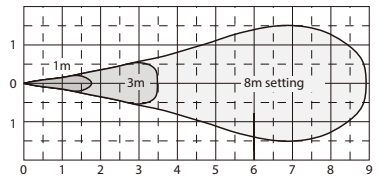2 output 1 input

Self-monitoring capability

Specifications

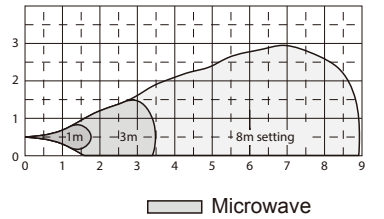| Name	Vehicle Detection Sensor		
Model	OVS-02GT		
Detection method	Microwave (FMCW)		
Frequency	Microwave: 24GHz, BLE communication: 2.4GHz		
Response	Min 500ms		
Supply voltage	12 to 24VAC/DC		
Power consumption	Heater enabled: Up to 300mA, Heater disabled: Up to 80mA (at 24V)		
Output	1	Non-Voltage Relay Output 30VDC 0.3A or less (resistance load)	
	2	Non-Voltage Relay Output 30VDC 1A or less (N.O./N.C.)	
	RS485	n/a	
Detection range	2.0 to 8.0m range adjustable		
Detectable vehicle speed	2 to 35km/h		
Application	Gate-activation, protection / single room / count / traffic control		
Parameter	Angle	Single room: Center/corner, Gate: 90°/45°, Traffic control: 45°, Count: 45°	
	Detection area range	2.0m to 8.0m (0.5m pitch)	
	Detected sensitivity	Level 1 to 7	
	Undetected sensitivity	Level 1 to 7	
	Sensitivity boost	OFF / Low / Middle / High	
	Sensitivity boost timer [s]	Off / 0.5 / 1 / 2 / 3 / 4 / 5 / 10 / 20 / 40	
	Detection response time (min)	Off / 5 / 60 / 180 / ∞	
Indicator	ON / OFF	Possible to switch with the app	
	Normal operation	Standby: solid green, Detected: solid red, Bad environment: blinking green (slow), BLE connected: solid blue	
	Detection area check	Not detected: blinking blue, Pre-detected: blinking green, Detected: blinking red	
	Calibration	Calibrating: quick blinking blue, Error: alternate blinking red & blue	
	Sensor reset	Reset complete: solid yellow for 2 seconds	
Ambient temperature	-30 to 50°C		
Operating ambient humidity	95% max. (no condensation)		
Degree of protection	IP66		
Installation location	Indoor/outdoor, pole mounting (diameter: φ60.5mm)		
Installation height	500 (to 530) mm (from the ground to the bottom of the unit)		
Sensor angle adjustment	Left and right: ±93° (3° pitch)		
Weight	770g (including accessories)		
Accessories	Retaining screw x 4, quick manual		

Specifications are subject to change without notice for improvement.

Detection Area Diagram

[Unit:m] 1m=3.3ft.
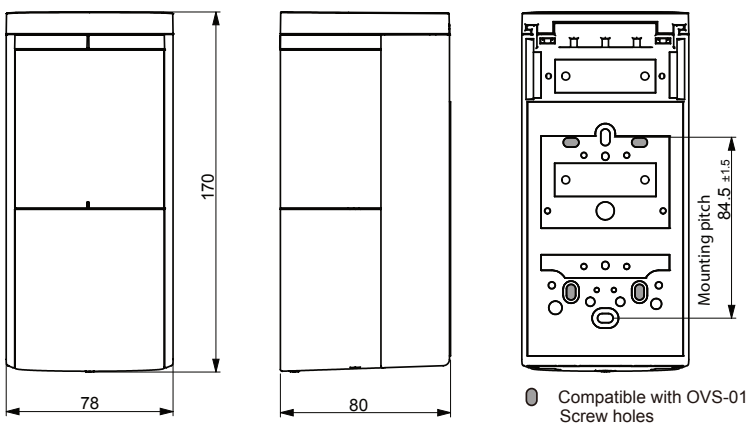
Top View

Side View

Microwave

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.

Dimensions

Exposed

[Unit:mm(inch)]

170
78
80
Mounting pitch 84.5 ±1.5

Compatible with OVS-01 Screw holes

Sensor Installation Conditions

Barrier Gate

90°
45°
Vehicle Path

Slide Gate

Public side
90°
90°
Secure side
30°
Vehicle Path