



Advantages of OVS-02GT vehicle sensor

Reliable and flexible vehicle detection

The vehicle detection sensor for automatic gates and barriers offers excellent short and long-range detection up to 8 meters and a wide-angle adjustment of 90° to 95°.

Easy above-ground installation

The above-ground installation on a barrier housing, wall or pole makes it a less invasive solution for many locations where a ground loop is not possible or even allowed.

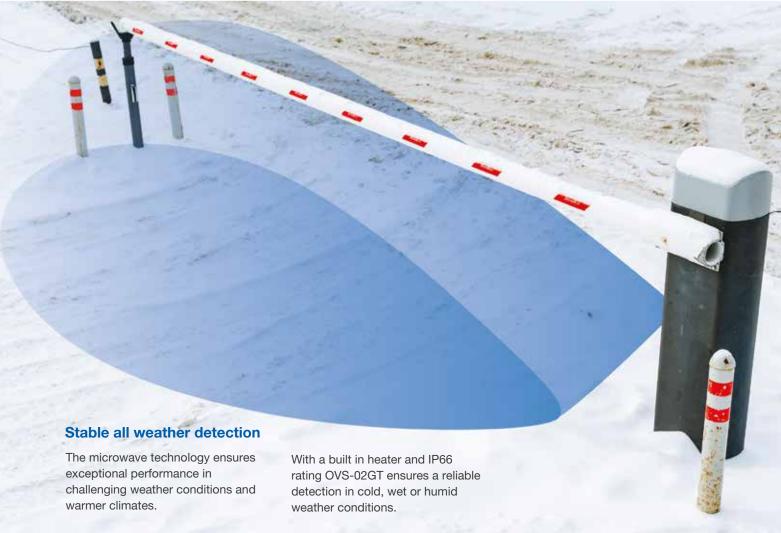
Excellent performance

The OVS-02GT is not affected by ground movement and is able to filter out pedestrian traffic to avoid unnecessary activations. It detects all type of vehicles of any colours and materials; stationary vehicles and moving vehicles up to 35km/h will be detected.

Do more with one sensor

The presence detection prevents damage to the vehicle from early closing barriers. The sensor can also be used for activating third party devices like signalling lights and ticketing machines.









Where digging is not possible

Resin bound driveways, stone/brick pavements

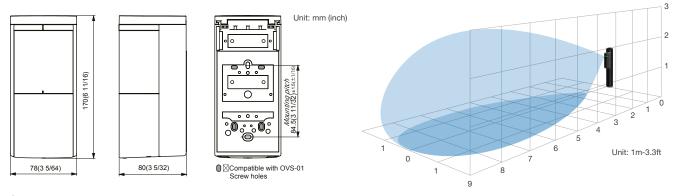
Where civil engineering is not possible

Public areas, post tensioned concrete, steel grating, cover drains

Where loop malfunctions are caused

Damaged surfaces, surfaces prone to flood, malfunctions by ice or snow

Detection Area Diagram



Specifications

Sensor Installation Conditions

Barrier Gate

Name			Vehicle Detection Sensor (Surface mount)
Model			OVS-02GT
Detection method			Microwave (FMCW)
Frequency			Microwave : 24GHz, BLE communication : 2.4GHz
Response			MIN 500ms
Supply voltage			12 to 24V AC/DC
Power consumption			Heater enabled : Up to 300mA / Heater disabled: Up to 90mA(at 24V)
	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]		0FF / 0.5 / 1 / 2 / 3 / 4
Output	Hold timer [s]		0FF / 0.5 /1 / 2 / 3 / 10 / 30 / 60
	Mode		Detection / Pre-detection / Mask
	Туре		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 gater-Activation, Protection / Swing gater-Activation, Protection, Shadow
Detectable vehicle speed			2 to 35km/h (1.2 to 22 mi/h)
	Detection range		1.5m (7ft.) to 8.0m (26ft.) *0.5m(20in.) 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)
Device setting	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
	On / Off		Switchable (with the smartphone App or by holding a magnet close to the unit)
	Standard operation mode	Detection operation	$Standby: Solid\ green,\ Detected: Solid\ red,\ Bad\ environment: Solid\ purple,\ Calibration\ uncompleted: Solid\ blue$
		Wake up	Wake up : Solid blue for 3 seconds
		Sensor reset	Completed reset : Blinking blue (Fast) for 2 seconds
Indicator	Smartphone app connection mode	Setting Detecton operation	Stanby : Blinking green(slow), Detected : Blinking yellow(slow), Bad environment : Blinking purple(slow), Calibration uncompleted : Blinking blue(slow)
		Area check	Stanby : Blinking green(slow), Pre-detected : Blinking yellow(slow), Detected : Blinking red(slow)
		Calibration	In process: Blinking Blue & Green, Error Unstable: Blinking Red & Yellow(Fast), Error High reflection: Blinking Red & Blue(Fast), High reflection: Blinking Purple(for 10s)
Ambient Temperature			-30 to 50 (-22 to 122 F)
Operating Ambient Humidity			95% max. (no condensation)
Degree of Protection			IP66 / NEMA4
Installation Location			Indoor / Outdoor
Installation Height			500mm(20in.) (from the ground to the bottom of the unit)
Sensor Angle Adjustment			Left and right : ±96 (3 pitch)
Weight			600g (21oz) (including accessories)
	es		Retaing screw (Metric coarse thread M4x12 : 2pcs, Tapping Screws 4x20 : 2pcs), Quick manual

Specifications are subject to change without notice for improvement.



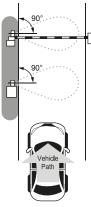
For EMEA Entrance applications info@optex.eu

For EMEA Security applications marketing@optex-europe.com

www.optex-europe.com

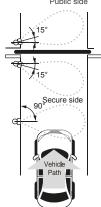






Sliding Gate

Public side



Swing Gate

