

VIRTUAL LOOP™



OVS-01GT

Applications:

Slide gate: Activation, Vehicle Protection Loop

Swing gate: Activation, Vehicle Protection, Shadow/Center Loop

Barrier Arm gate: Activation, Vehicle Protection/Down Loop

Arming/Access Control: Activation

Commercial/Industrial Doors: Activation, Vehicle Protection



OVS 01GT Setup Guide

Product Package



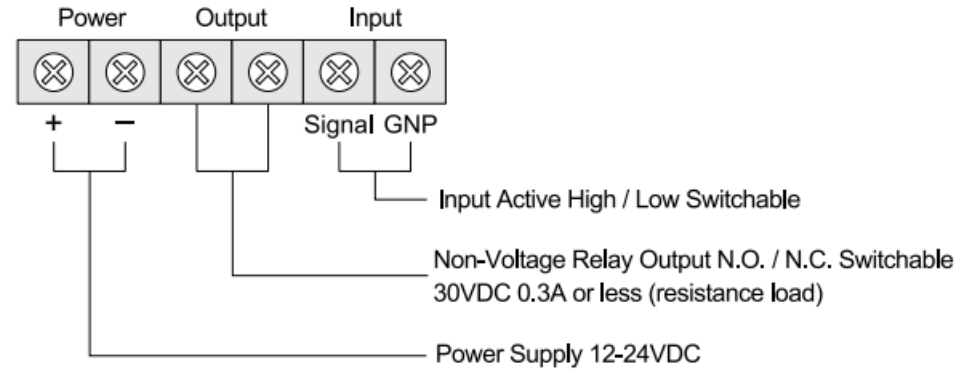
What's inside

- OVS-01GT(E)
- Quick reference guide
- Installation Instructions
- 12mm x 3mm ϕ screw (4 sets)

Options

- OVS-TB01: 45 degree mounting bracket

OVS 01GT Setup Guide



Applicable Wire

Solid wire: 0.5-1.2mm (AWG 30-16)

Stranded wire: 0.3-2.0sq (AWG 22-14)



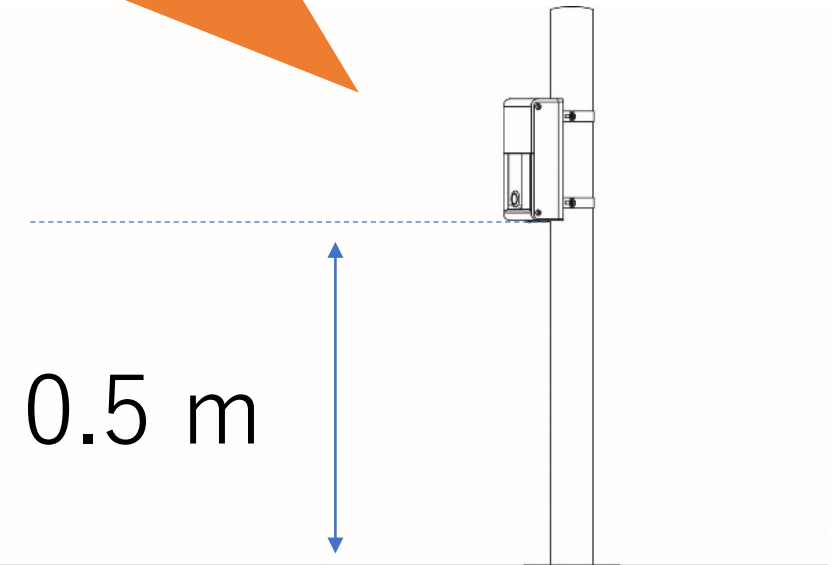
3 points to remember

- Mounting Height
- Angle
- Calibration

Mounting Height



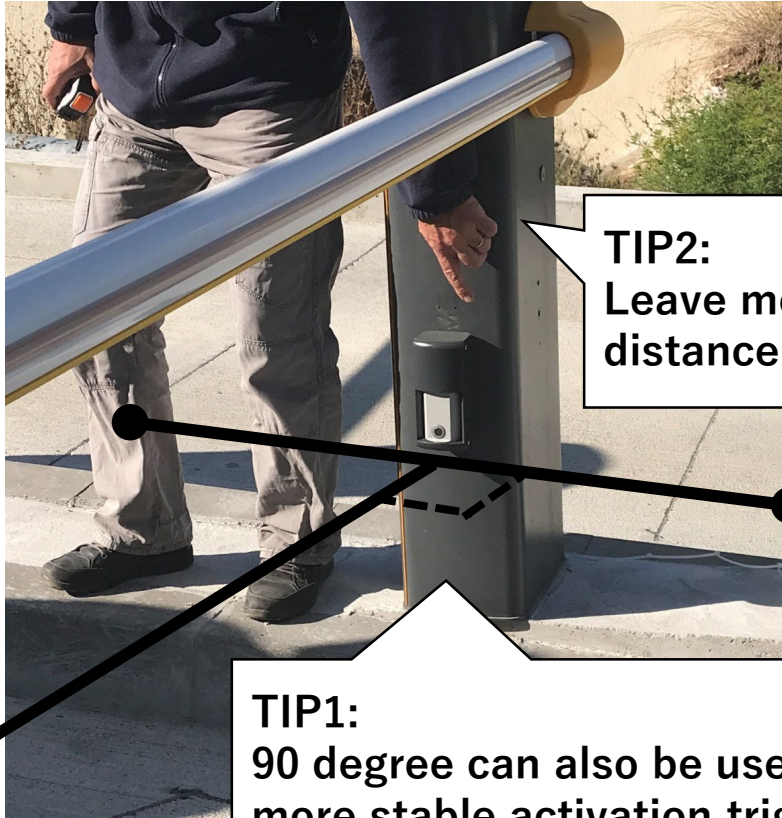
If “activation mode” is used for a sloped approach, the height may need to be adjusted.



OVS 01GT Setup Guide : **Pick an angle**

90 degree

Set to "**Protection mode**"

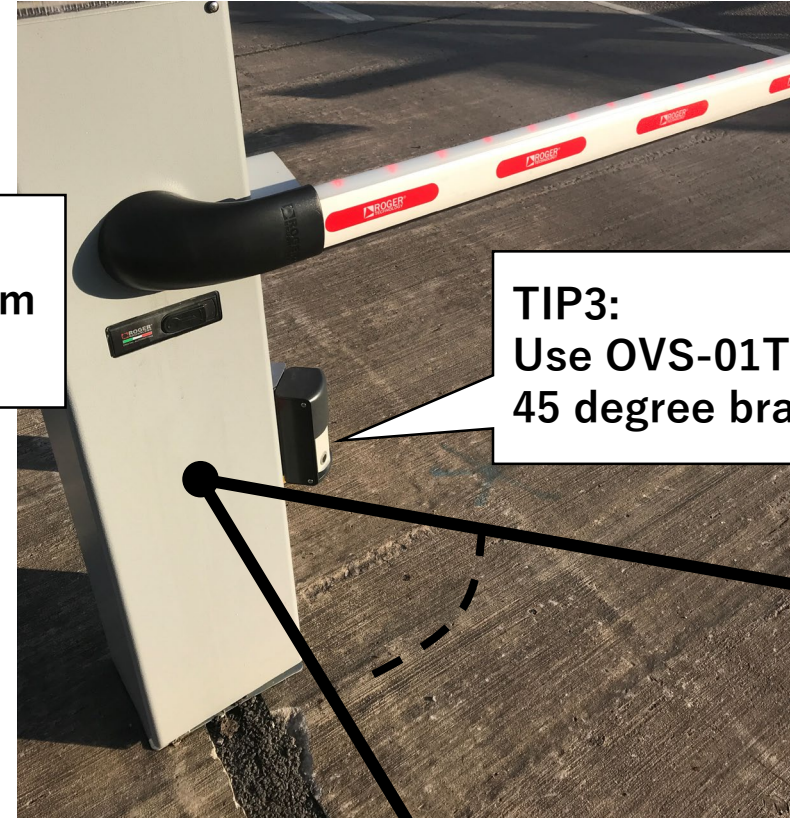


TIP2:
Leave more than 30cm
distance from bars.

TIP1:
90 degree can also be used as
more stable activation trigger.

45 degree

Set to "**Activation mode**"



TIP3:
Use OVS-01TB
45 degree bracket

OVS 01GT Setup Guide

Calibration & Walk test (Area check)



Press and hold until LED
flash in blue



Stand off to a side.

OVS 01GT Setup Guide: Note about “Area Check”



Yes, OVS-01GT has “**human cancellation**”!

However, you can still check its detection area by “**Walking around**”

Green Flash:

You are outside of a Microwave(Mw) trigger zone.

Yellow Flash:

You are inside of a Mw trigger zone.

Purple Flash:

You are inside of ultrasonic(Us) zone.

Red Flash:

You are triggering both Mw and Us.

OVS 01GT Setup Guide

Set up flow

1. Fix position: **height** and **angle**
2. Run cables and power the device up
3. Set **detection range** and run **calibration**
 - See if the device functions on the default setting.
4. Adjust parameter.

Human cancel adjustment “5” will reduce “vehicle detection” accuracy.
5. Repeat Calibration and adjustment thorough with testing with vehicles.

Recommended Initial setting (Default setting)

Set Item	Factory default setting
Microwave Maximum Range	3.5m(11.48ft.)
Output	N.O.
Sensor Mode	Vehicle Protection
Sensitivity	3
Human Cancel Adjustment	3
Presence Detection Timer	5min
Sensitivity Boost Timer	Off
Ultrasonic Maximum Range	1m(3.28ft.)
Input	Wake L

OVS 01GT Setup Guide

Examples



Interface Modification

● Sensitivity	1	2	3	4	5
● Human Cancel Adjust	1	2	3	4	5
● Presence Detection Timer (min)	5	60	180	Infinity	
● Sensitivity Boost Timer (sec)	Off	5	10	20	40
● Ultrasonic Maximum Range	Off	0.6m/2'	0.8m/2.6'	1m/3.3'	1.5m/5'
● Input	Wake L	Wake H	Inhibit L	Inhibit H	
<div> <div>↓</div> <div>MODE</div> <div>VALUE</div> <div>→</div> </div>	●	●	●	●	●

Microwave Maximum Range

2m

2.5m

3m

3.5m

7'

8'

10'

11.5'

4m

4.5m

5m

5.5m

13'

15'

16'

18'

Output

N.O.

N.C.

Sensor Mode

Activation

Vehicle Protection

● Standby

● Area Check

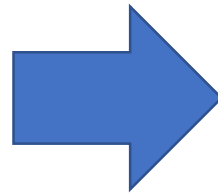
● Detection

● Calibration

● Calibration Error

Calibration

Area Check



NEW Interface

● <u>Static Sensitivity</u>	<u>min.</u>	2	3	4	<u>special</u>
● <u>Trigger Sensitivity</u>	<u>人&车</u>	2	3	4	<u>车</u>
● <u>Presence Detection (min)</u>	5	60	180	Infinity	
● <u>Sensitivity Boost (sec)</u>	Off	5	10	20	40
● <u>Ultrasonic Range</u>	Off	0.6m/2'	0.8m/2.6'	1m/3.3'	1.5m/5'
● <u>Input</u>	Wake L	Wake H	Inhibit L	Inhibit H	
<div> <div>↓</div> <div>MODE</div> <div>VALUE</div> <div>→</div> </div>	●	●	●	●	●

Microwave Maximum Range

2m

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3.5m

7'

8'

10'

11.5'

4m

4.5m

5m

5.5m

13'

15'

16'

18'

Output

N.O.

N.C.

Sensor Mode

Angled

Perpendicular

● Standby

● Area Check

● Detection

● Calibration

● Calibration Error

Calibration

Area Check

(Not final: subject to change)

New labels to be applied to production in **Q3 2020**

There is **no change** in performances, features and algorism to the current model.

OVS 01GT Setup Guide

Frequently told answers

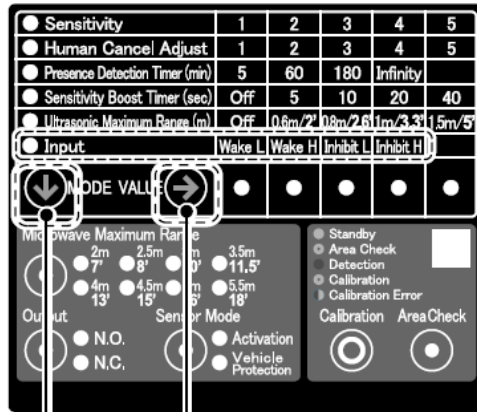
1. Unlike Induction loops, OVS-01GT requires sensitivity tuning and calibrations.
2. Slopes and obstacles in the detection range will affect detection performances.
3. Yes, buttons are hard to press, but you will feel a click when pressed on circles.
4. From no wind, rain, storm we had issues in US or Japan where typhoons hit.
5. “Area check” is a way to check detection area by human walking around.

Ref. Installation Instructions P.3 : LED Status indicator

6. Recommended to try default setting to start. Ref. Installation Instructions P.16 : Sensor reset

“Human cancel adjustment” setting may offset vehicle detection “sensitivity”.

Input



1. Press the Mode Select button and select [Input].
2. Press the Value button to select input.

Human detection (HD) mode

If no closed connection is made on the input terminal, the device will stay at “Enhanced” sensitivity.

Then, the device will go off by a human presence.

	Physical circuit status	Input trigger type	What happens when triggered	Note
Wake L	Open	Normally Open	<u>Enhances</u> the sensitivity of detection	The default setting
Wake H	Open	Normally Closed	<u>Enhances</u> the sensitivity of detection	If no closed connection is made, the device will stay at “Enhanced” sensitivity. (No human cancellation)
Inhibit L	Open	Normally Open	<u>Mute</u> the sensitivity of detection	The device will not detect when the input circuit is closed.
Inhibit H	Open	Normally Closed	<u>Mute</u> the sensitivity of detection	If no closed connection is made, the device will stay at muted. (No trigger at all)

OVS 01GT Setup Guide

For any question or set up guidance, please send inquiry to:

tech-support@optex-europe.com

Thank you.