

# Reflective Photocell Installation Instructions GTR208

This accessory suits the following Richmond gate motors:  
GTR064, GTR156, GTR207, GTR099, and GTR058

## Kit Includes:

- 1x Photocell emitter with 2m (5 core) cable
- 1x Photocell reflector (mirror)
- 1x Mounting bracket
- 2x Bolt, washer, and nut



Infrared reflective photocells offer an added safety feature that prevents gates from closing on and impacting vehicles/pedestrians during operation.

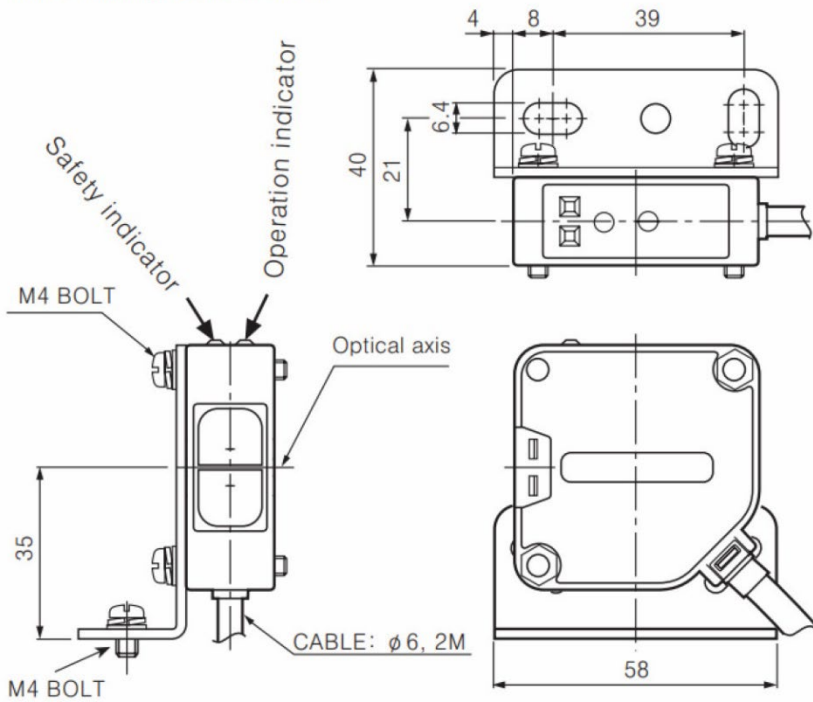
## How it Works:

The single emitter sends a photobeam across your driveway entrance (up to a 7m distance). The reflector will then bounce the beam back to the emitter. If a vehicle or pedestrian breaks the beam the gate will stop and fully open.

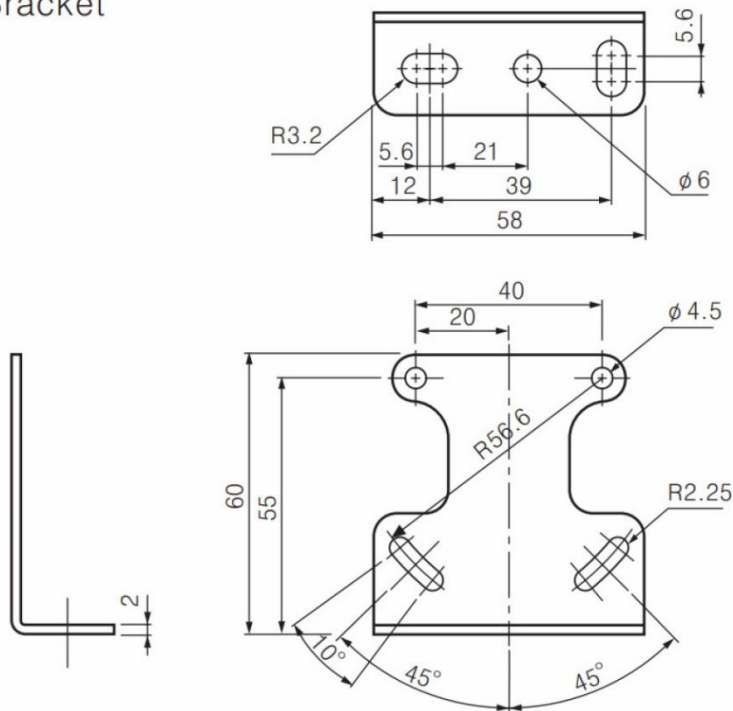
\* Max range may be reduced in bad weather conditions.

# Product Dimensions & Specs

## ● Mounting a bracket



## ● Bracket



The **GTR208** cable is 2m long and has 5 cores



4 of the 5 cores are used, this is a universal safety beam to suit all RWC gate openers.

**Brown (BN):** DC12-24V +



**Blue (BU):** DC12-24V -



**Black (BK):** N.O (Normally Open)  
Not used for Richmond Gate Openers



**White (WH):** COM (Common)

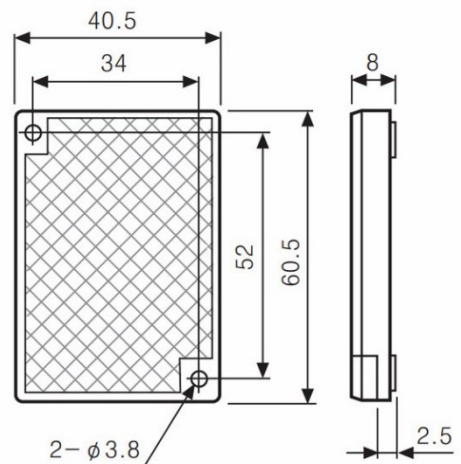


**Grey (GY):** N.C (Normally Closed)



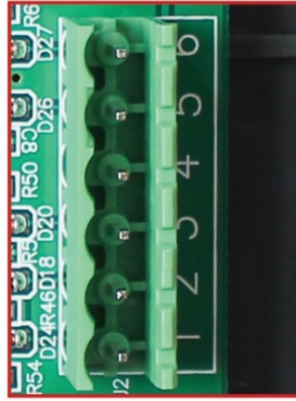
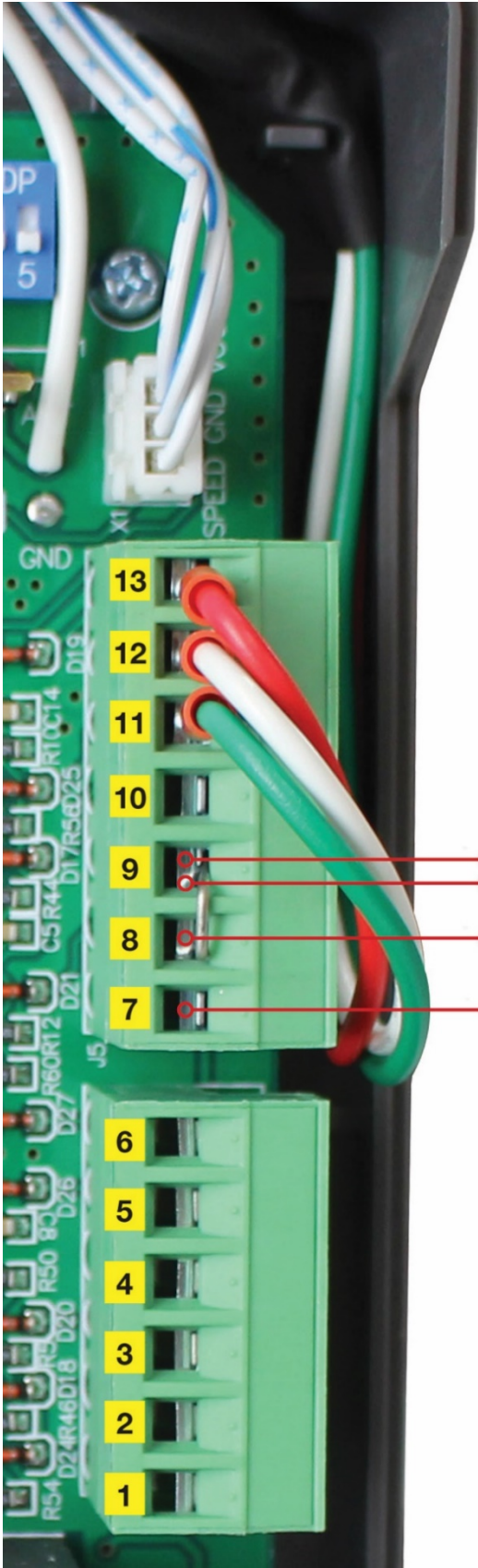
## ● Mirror (MS-2)

<MS-2 >



## How to connect to the GTR156 control board:

The below diagram shows how to connect the wires from the **GTR208** reflective photocell to the **GTR156 Automatic Sliding Gate Opener**.



All of the numbers in this diagram can be found on the control board of the gate opener.



**GTR208** Reflective Photocell Emitter

White

Blue

Grey

Brown

Black

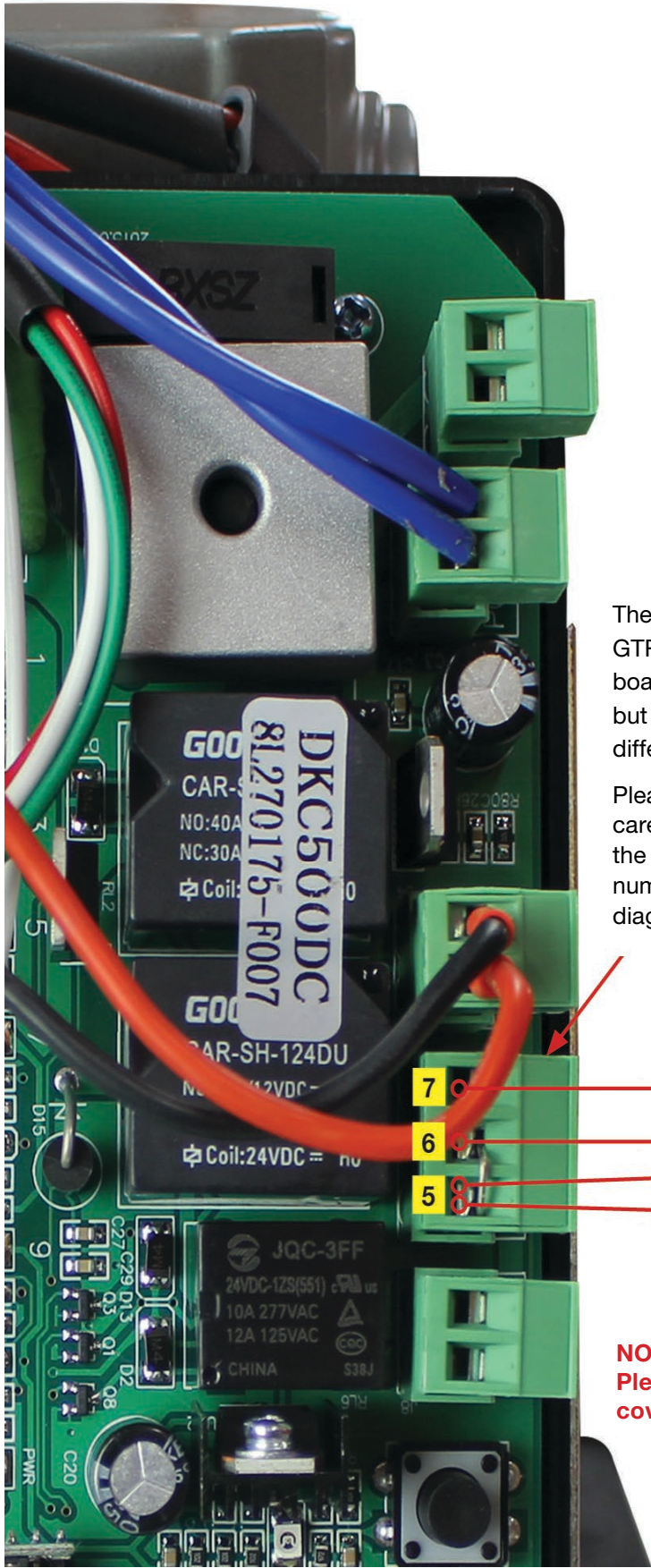
While wiring, remove the jumper pin between terminals 8 & 9

**NOT IN USE**  
please  
cover/cap off



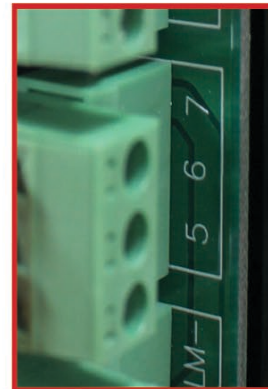
# How to connect to the GTR064 & GTR207 control board:

The below diagram shows how to connect the wires from the **GTR208** reflective photocell to the **GTR064 & GTR207 Automatic Sliding Gate Openers**.

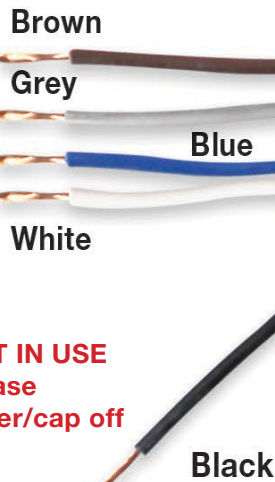


The GTR064 and GTR207 control boards are identical but will be facing different directions.

Please check carefully to ensure the wire colour and number match this diagram.



All the numbers in this diagram can be found on the control board of the gate opener.



**NOT IN USE**  
Please cover/cap off

While wiring, remove the jumper pin between terminals 5 & 6.

Please note, you will also need to set Dip Switch #8 to the ON position before operating your gate.

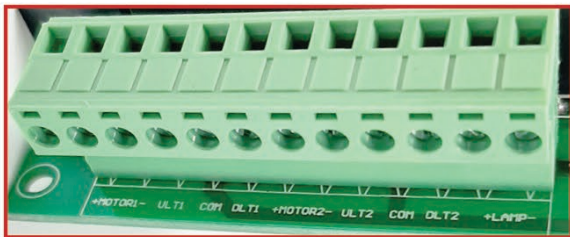
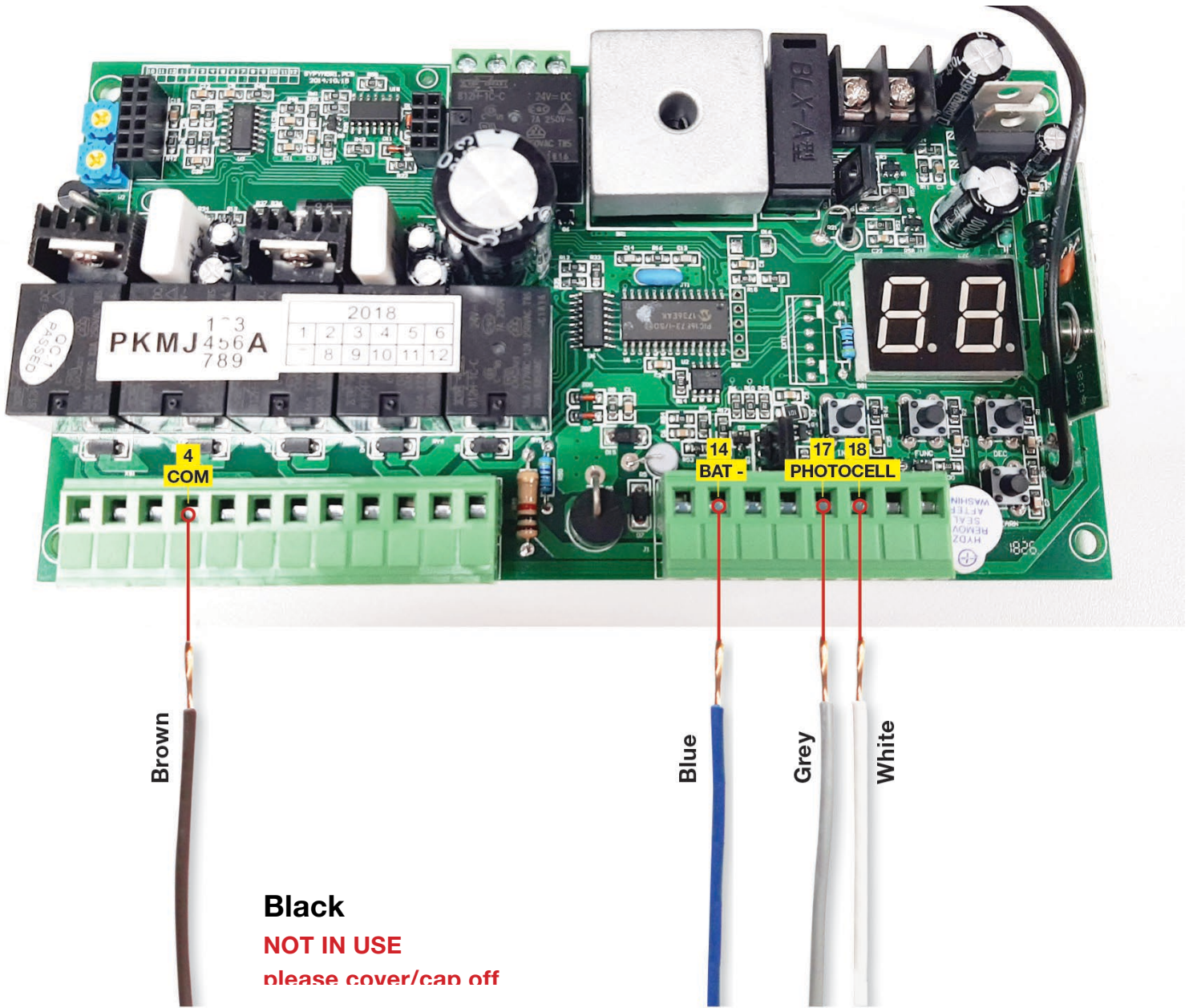






## How to connect to the GTR058 control board:

The below diagram shows how to connect the wires from the GTR208 reflective photocell to the GTR058 Double Swing Gate Opener.



All the labels in this diagram can be found on the control board of the gate opener.

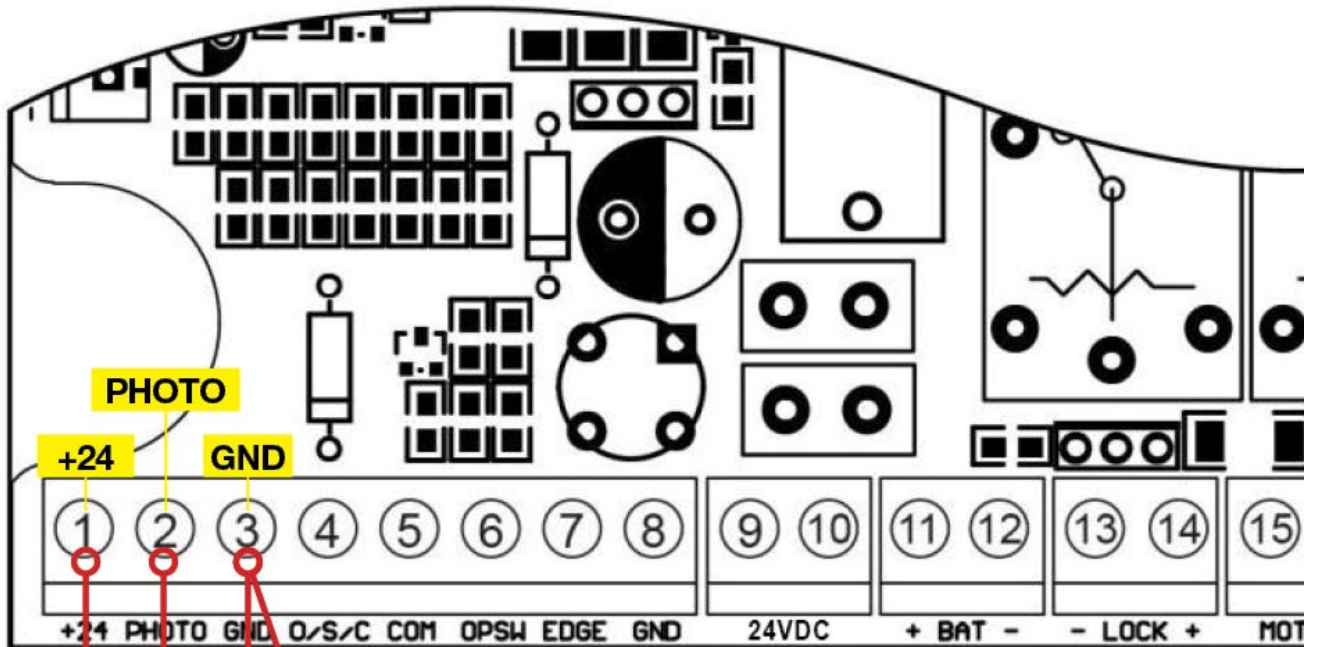
### PLEASE NOTE:

You will need to enable the 'P9' setting on your gate before the Photocell will operate.

You can download the GTR058 manual at [richmondau.com/gtr058-swing-gate-manual/](http://richmondau.com/gtr058-swing-gate-manual/)

## How to connect to the GTR062 and GTR078 control board:

The below diagram shows how to connect the wires from the **GTR208** reflective photocell to the GTR062 and GTR078 Solar Swing Gate Openers



**Brown**

**Grey**

**White**

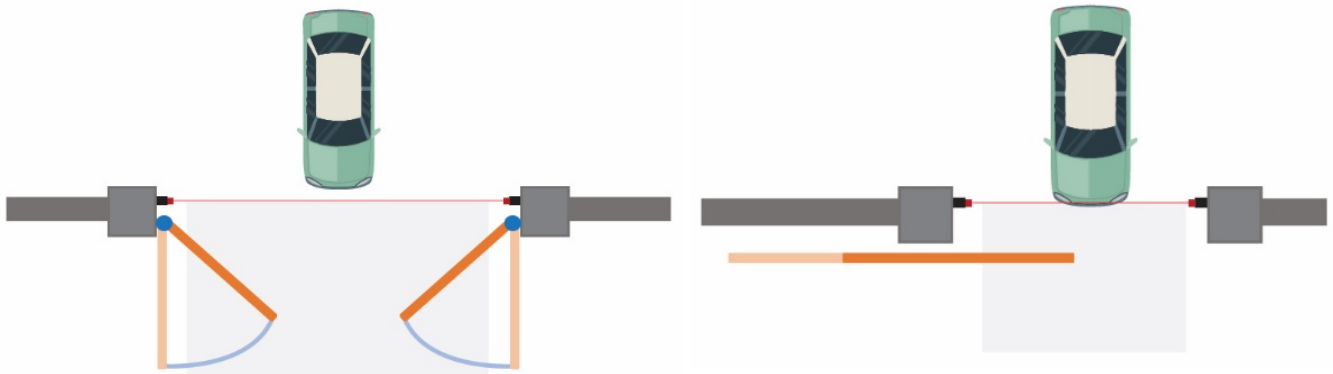
**Blue**

**Black**

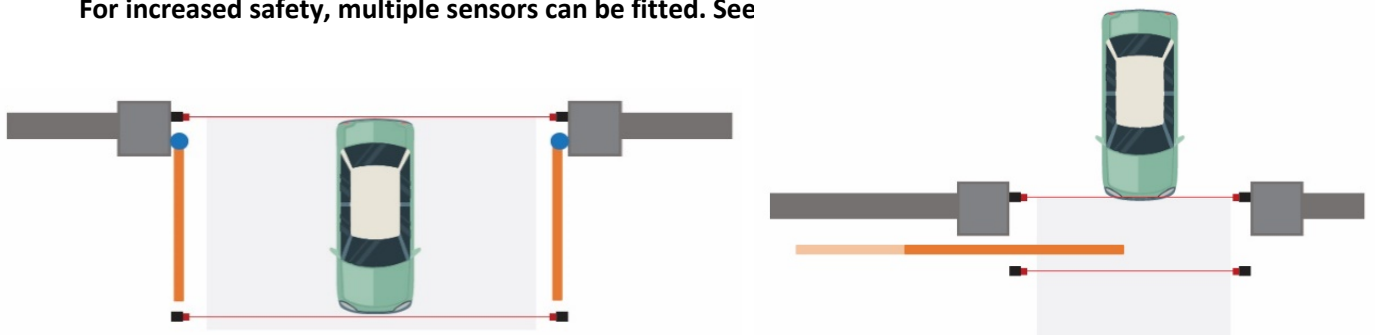
**NOT IN USE**  
please cover/  
cap off

The IR sensor provides additional safety and is recommended for all gates.  
The installation point can vary depending on your type of gate, and your requirements.

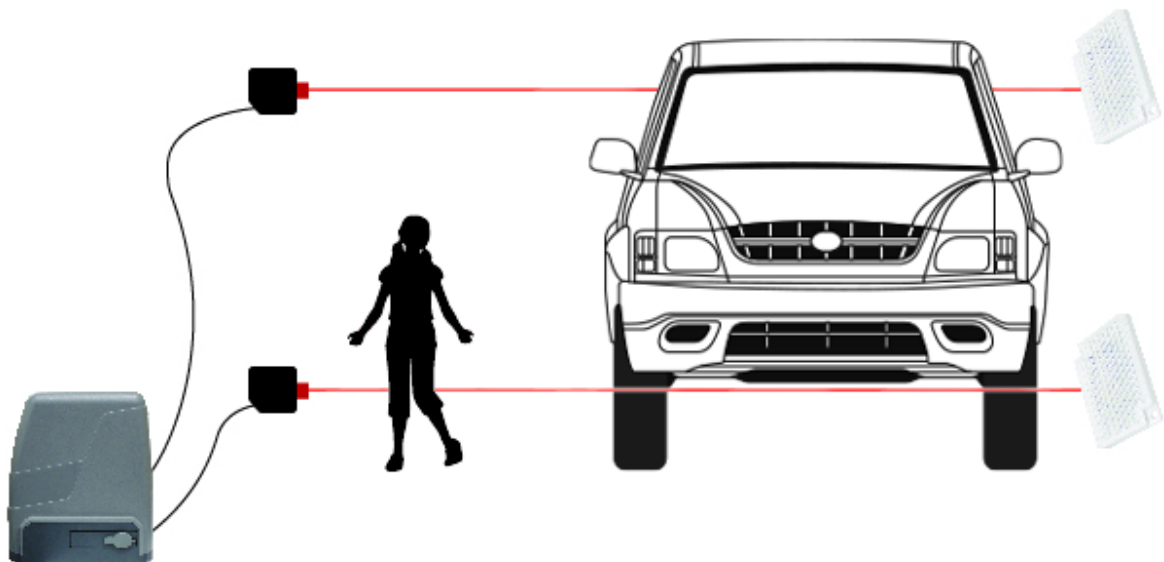
### Swing Gate Installation



For increased safety, multiple sensors can be fitted. See



Vehicles stopping between the gates will trigger one or both beams to stop gate closing.



Where pedestrians, smaller vehicles and larger vehicles are accessing the same gate, a single photocell may be below axle height, or above head height. Installing 2 beams at different heights is recommended.



To wire multiple units, sensor #1 is connected to sensor #2 via the N.C and COM terminals. Please see below for example of wiring diagram.

