



**BOLLARD
SECURITY**

EST. 2004

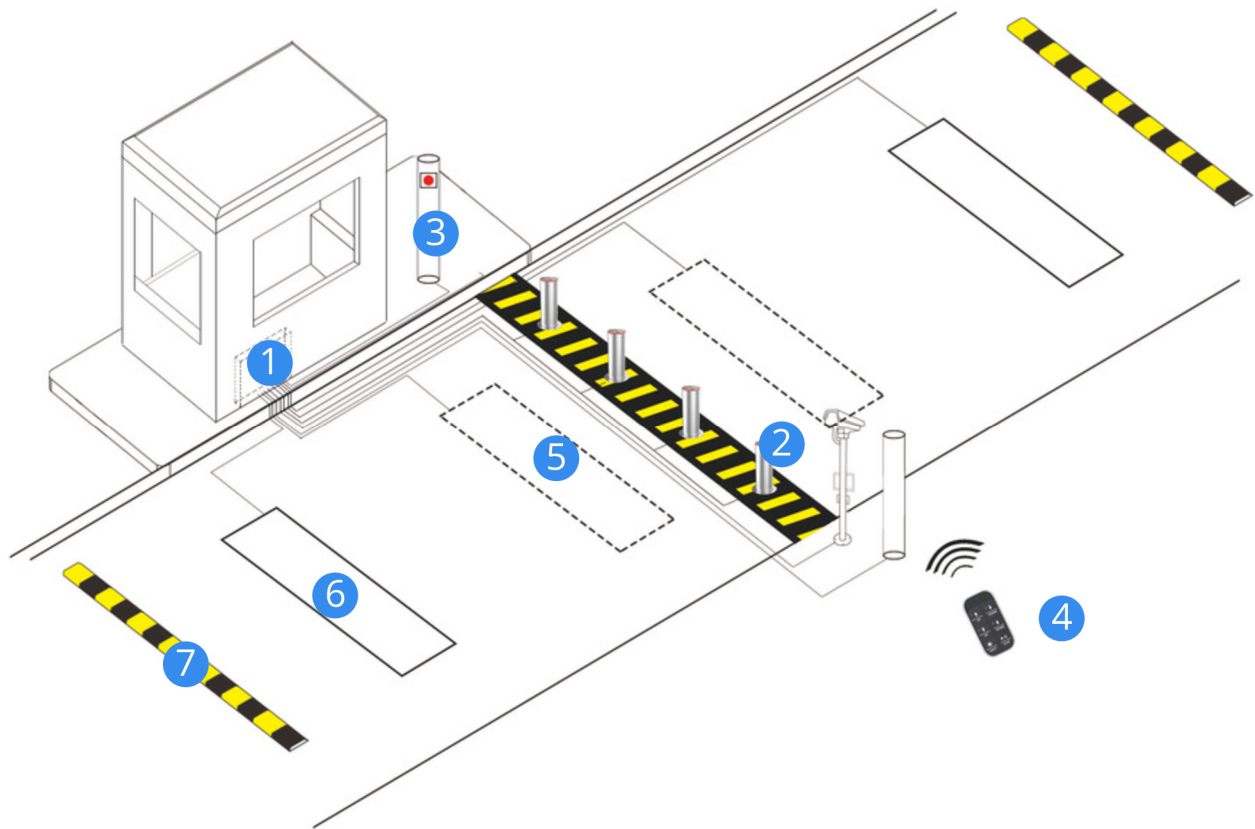
WARRIOR RISE

BOLLARD

AUTOMATIC BOLLARD

+44 (0)1535 509001
www.bollardsecurity.co.uk
info@bollardsecurity.co.uk

Wiring



1 Control Panel

3 Traffic Light

5 Geomagnetic

7 Speed Bump

2 Bollards

4 Remote Fob

6 Ground Sensor Coils

Introduction

01

Remote Key Fob Control

A programmable remote key fob allows unique installations, providing secure access and ease of use for all users.

02

High Security Protection

Engineered to withstand impact, this bollard offers protection against unauthorised vehicle access in sensitive or high-risk locations.

03

Sustainable Design

Made from recyclable materials, it provides a sustainable solution without compromising durability, strength, or long-term reliability.

04

Fully Sealed Unit

The sealed design prevents water ingress, removing drainage needs and enhancing operational lifespan in all conditions.

05

Weather & Corrosion Resistant

Built to endure extreme conditions, the protective coating resists rust, corrosion, and wear for long durability.

06

Certified & Tested

Fully tested to meet industry standards, ensuring superior impact resistance and compliance for high-security environments.



Tool Kit

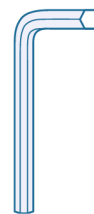
Each bollard is supplied with the following tool kit:



Grease



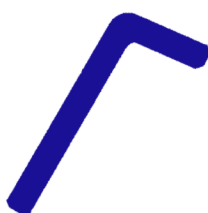
Screwdriver



Hex Key



Expansion Bolt

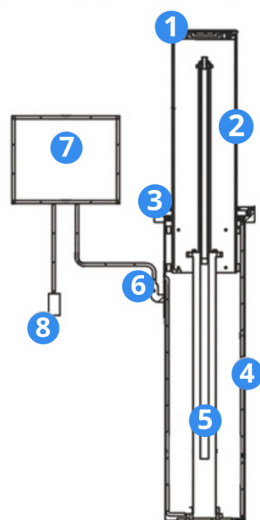


Dissassembly Tool

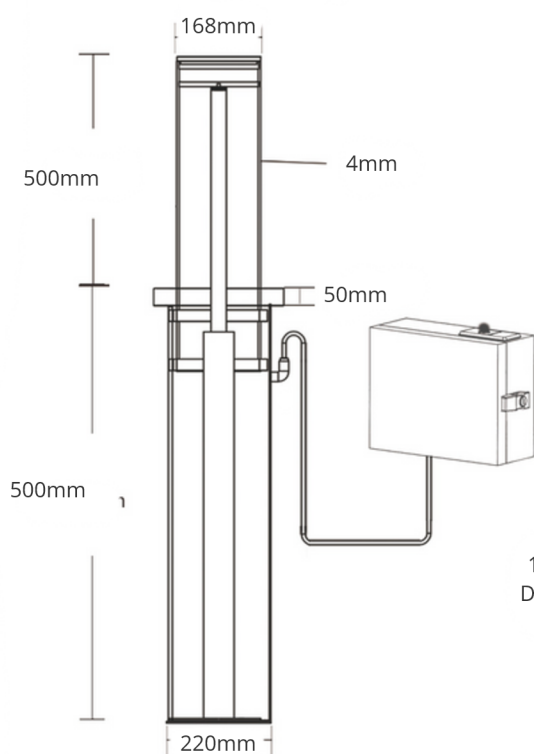


Screws

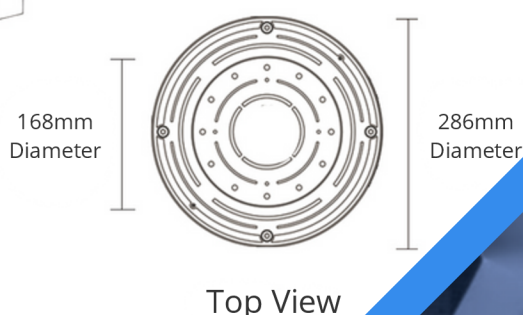
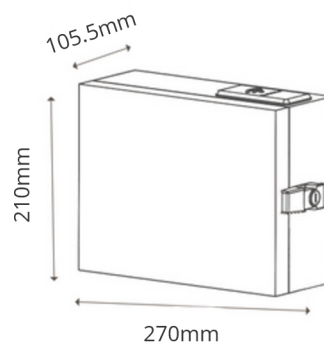
Dimensions



- 1 LED Light Unit
- 2 Shaft
- 3 Flange Plate
- 4 Casing
- 5 Actuator
- 6 Cable Gland
- 7 Control System
- 8 Plug

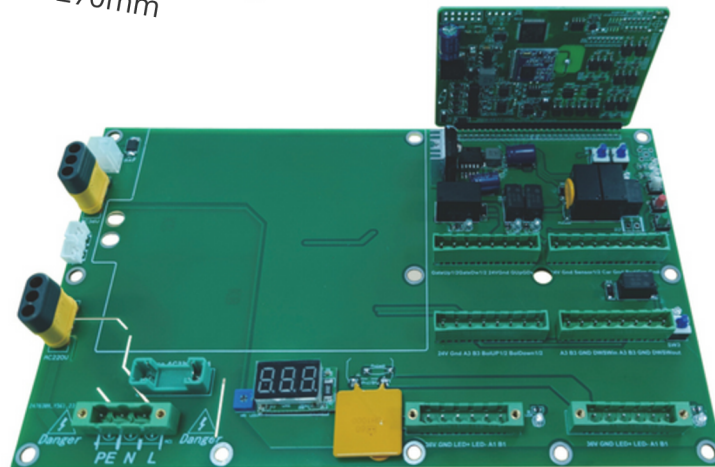
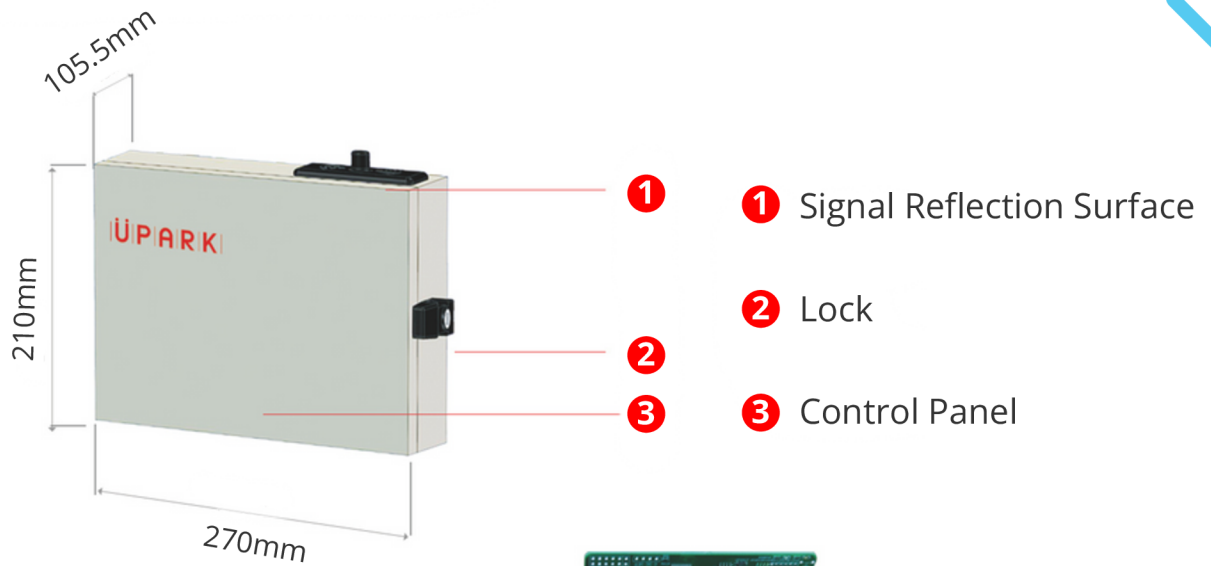


Side View



Top View

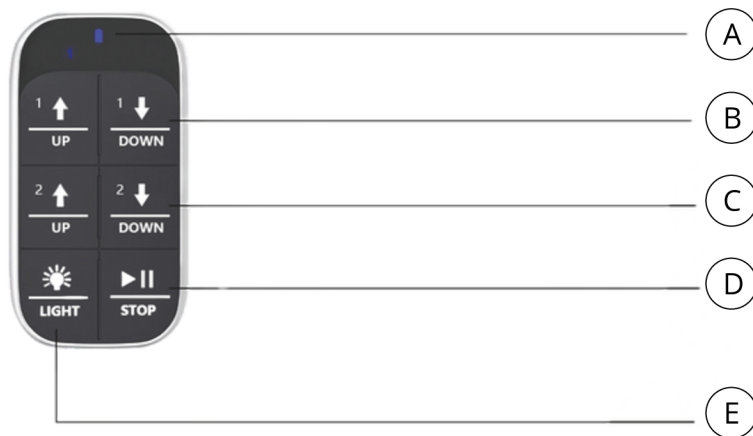
Control Panel



Control Board

This model minimises the size of the control panel while maximising the use of internal space. The control cabinet can control two automatic bollards (168mm diameter). In addition to being the control system for the automatic bollards, it is also equipped with multiple ports for external devices which can link with control units of other external devices such as gates, traffic lights and NPR systems.

Remote Fob



This remote control is equipped with functions such as binding and assigning codes, group control (2 groups), light control etc. It is also paired with Type-C charging port to meet the needs of more users.

A	Group A - Control first group of bollards "UP" & "DOWN"
B	Group B - Control second group of bollards "UP" & "DOWN"
C	"STOP" Button - Control the bollard to stop when it is rising/lowering
D	"Light" Button - Turns the bollards LED light on/off
E	Charging Light - Red light "charging" Blur light "fully charged"

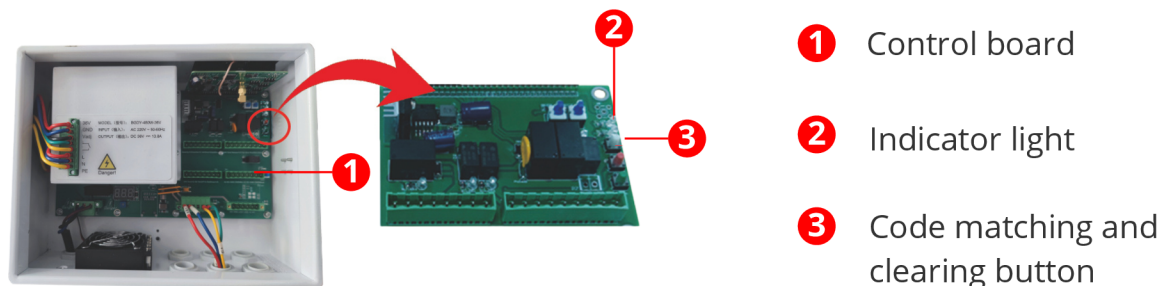
Note: The remote control is designed to be rechargeable with Type-C socket. Please **DO NOT use a high power charger**, the output should be no more than 5V 2A.

Programming

Remote control coding process

1. Opening the panel

Open the control panel and locate the white, red and green buttons in the upper right corner of the control board. The function of the white button is code matching.

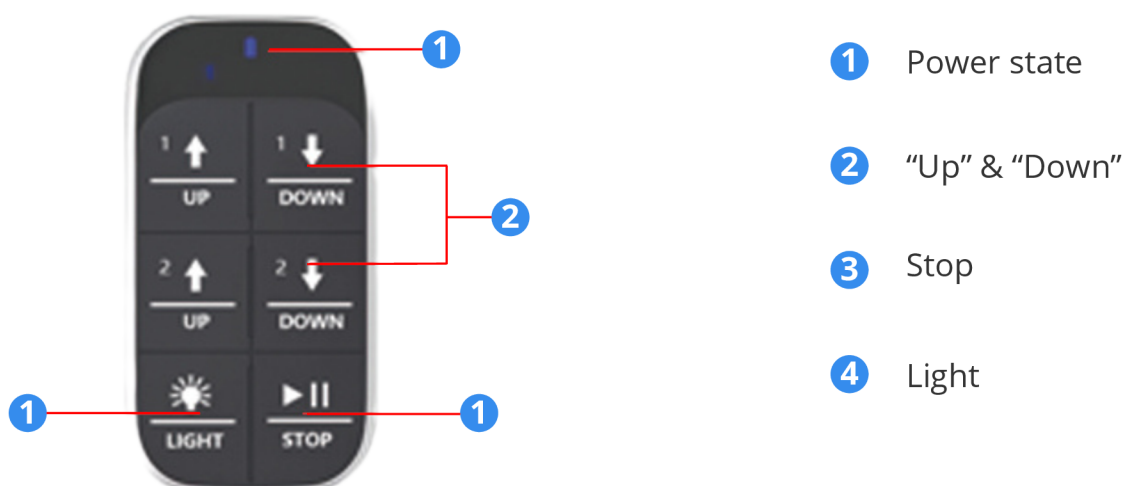


2. Clearing

Long press the white button and the blue light will illuminate. When the blue light is flashing, release the button, wait for the blue and red light to flash simultaneously for 5 times meaning the current programme has been unmatched and deleted successfully.

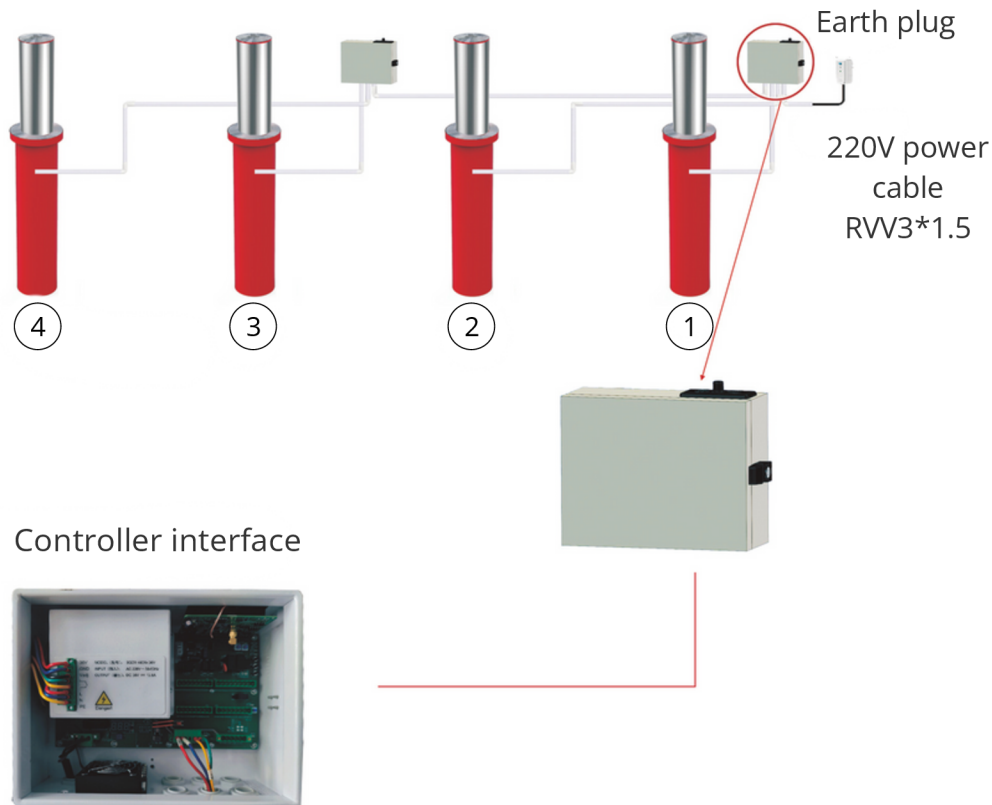
3. Pairing

Press the white button once and then release it immediately and the blue LED will light up indicating that the unit has entered into the code matching procedure. Press any group of buttons on the remote control (raise or lower), the blue LED will go out. The code matching is now complete and the remote control will operate the bollard of the corresponding group.



Electrical Connections

Up to four bollards are connected in groups using RVV3*1.5 cables in parallel as shown below:



For a description of the interface modes of the control box terminals, refer to **Terminal Block** page.

General purpose mode: Wired in linkage with external traffic lights.

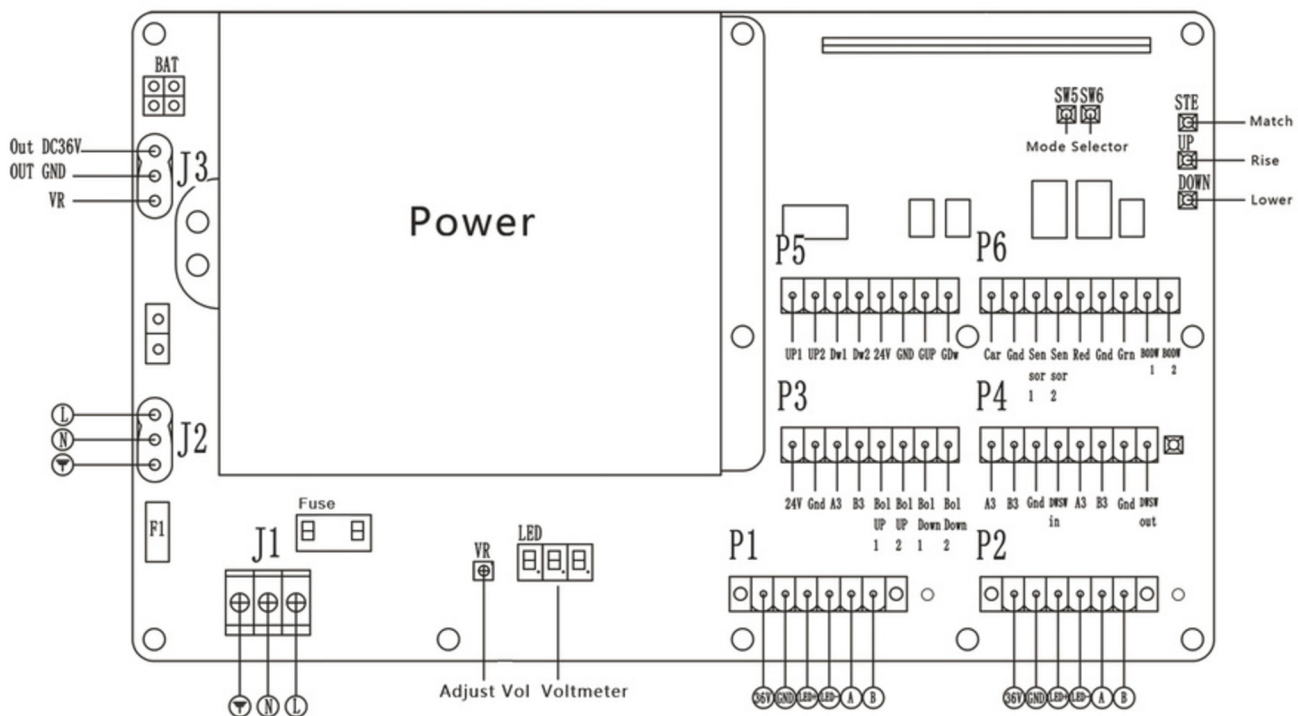
Mode 1: Independent from other external equipment, independent control

Mode 2: Connected with external equipment, external equipments sensor control of bollards rising (bollards remote fob signal shielding can not be used).

Mode 3: Connected to external equipment to enable the bollards remote fobs to control other external equipment.

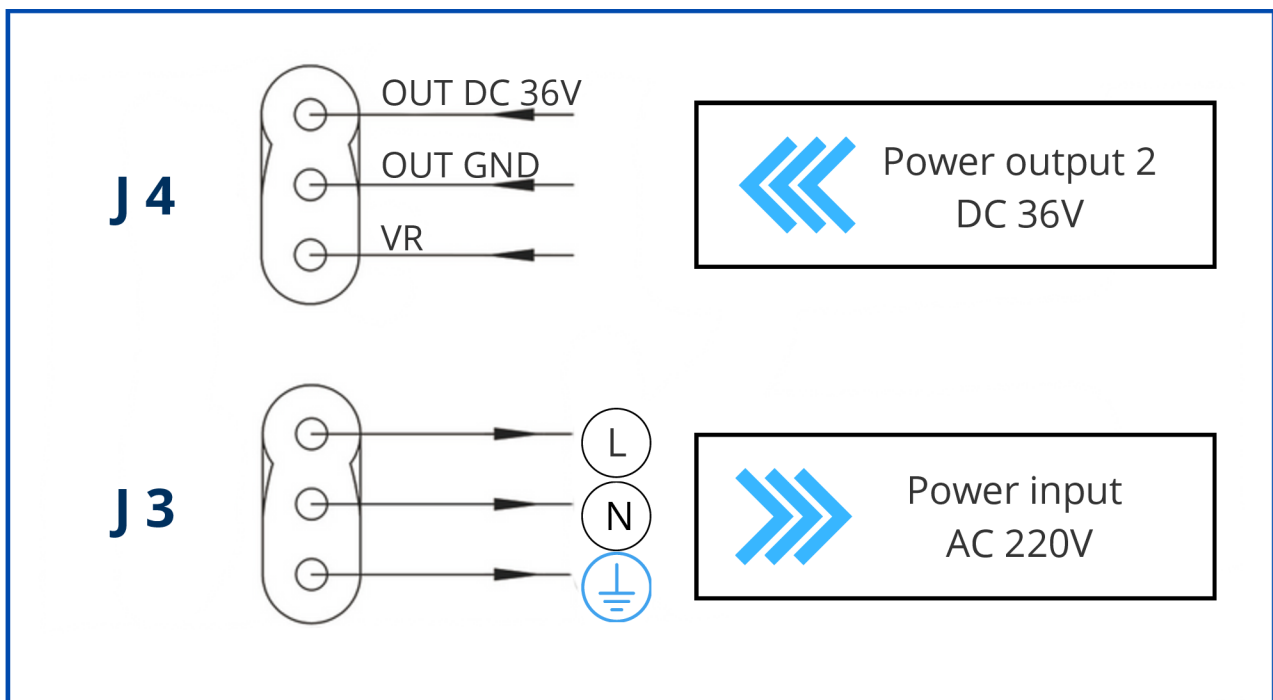
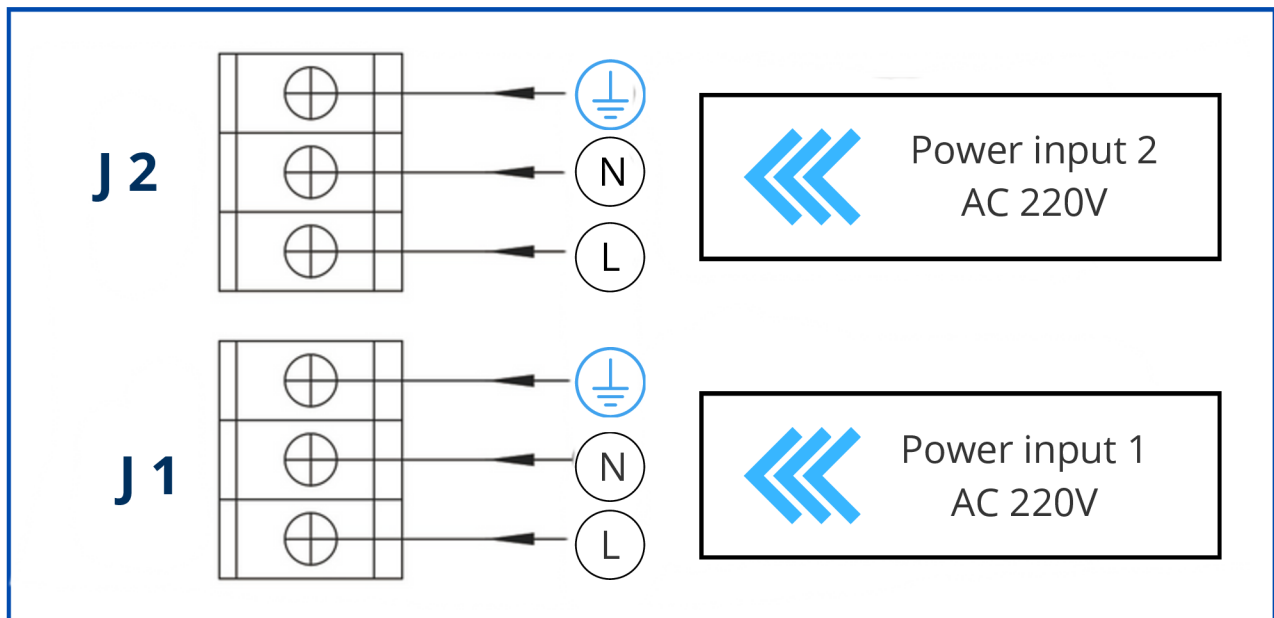
Mode 4: External equipment switch to control the bollards rising(bollards remote fob signal shielding can not be used)

Characteristics

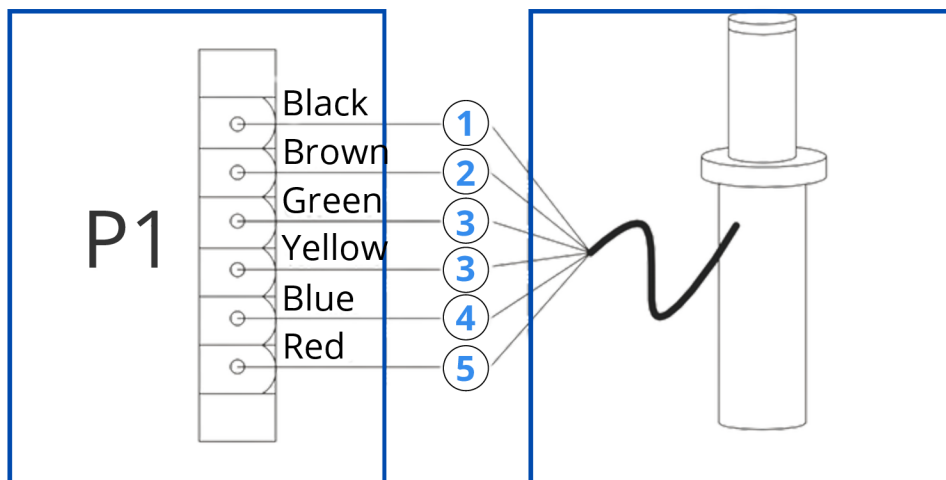
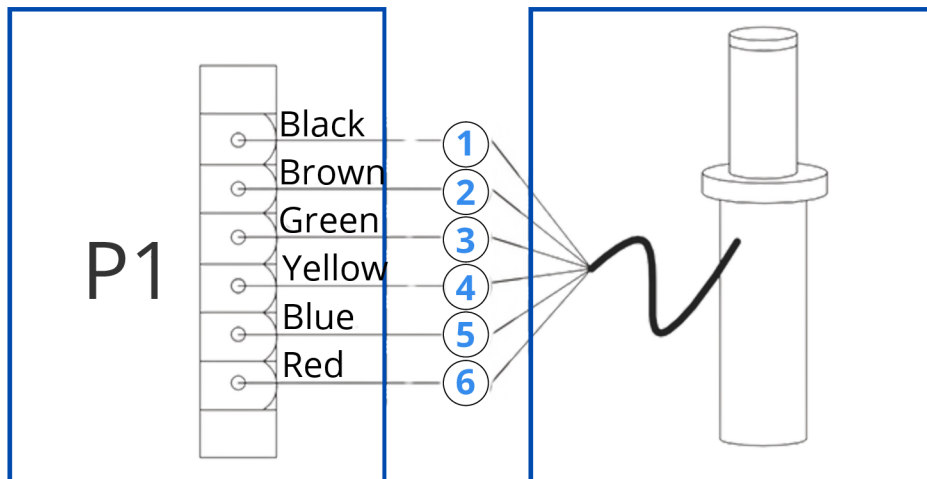


- J1: AC 220V Input
- J2: AC 220V Input
- J3: DC 36V Output
- VR: Adjust voltage
- LED: 3 digit display
- P1: Connection terminal for the first bollard
- P2: Connection terminal for the second bollard
- P3: External input interface terminal
- P4: 485 communication interface terminal
- P5: Terminal for connecting external devices
- P6: Licence plate recognition linkage interface terminal
- SW3:
- SW5:
- SW6:
- SET: Remote control fob matching code setting key
- Up: Control bollard "rising" button
- Down: Control bollard "lowering" button
- BAT: Battery backup interface in case of power failure

Terminal Block



Terminal Block

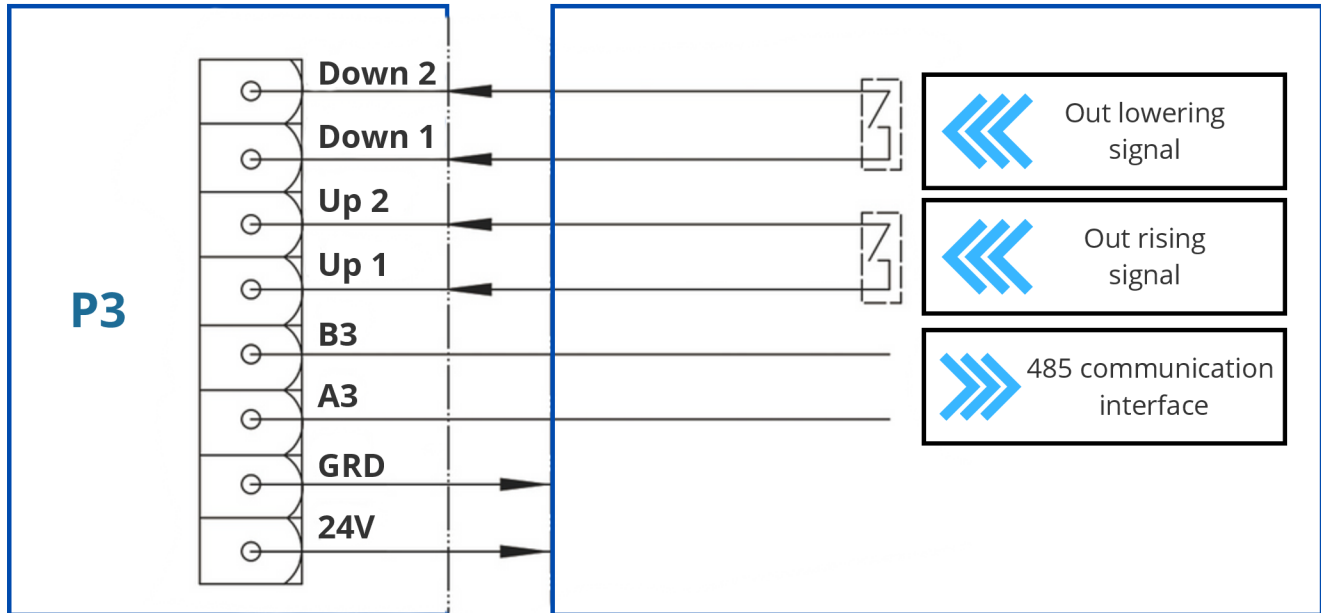


- ① B
- ② A
- ③ LED
- ④ GND
- ⑤ 36V

Terminal Block

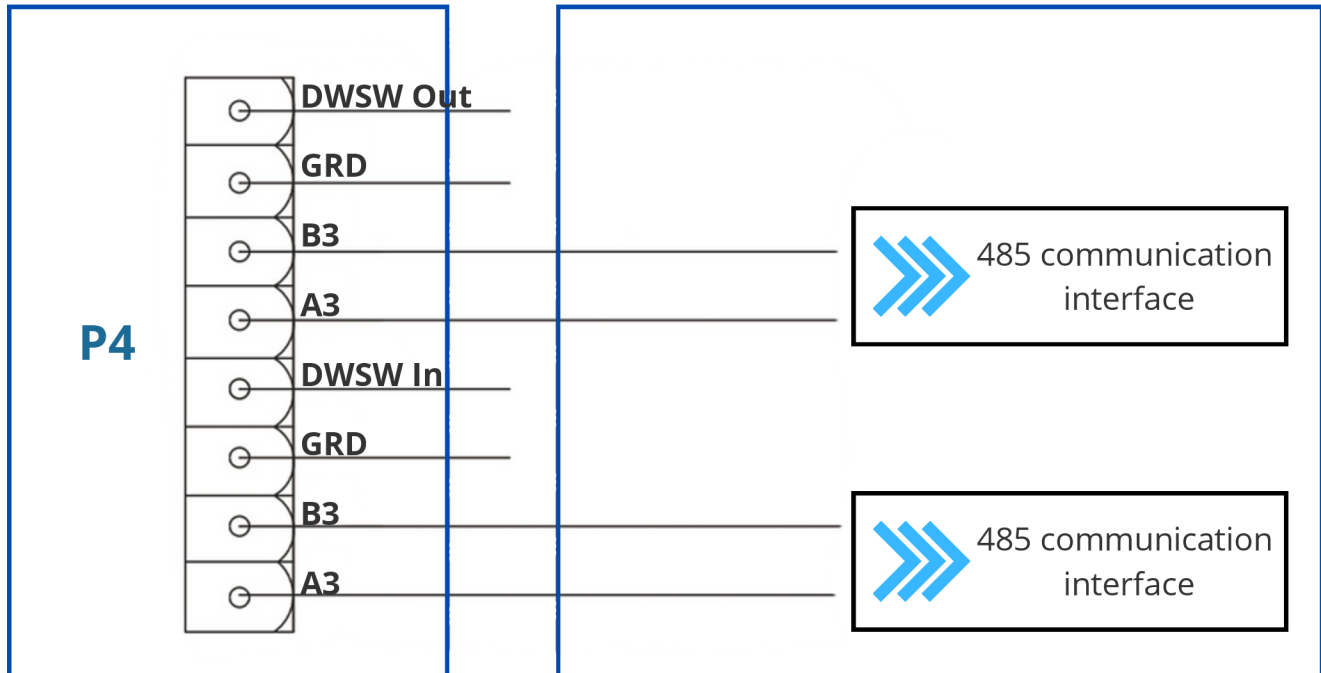
Bollard Control Unit

External Equipment



Bollard Control Unit

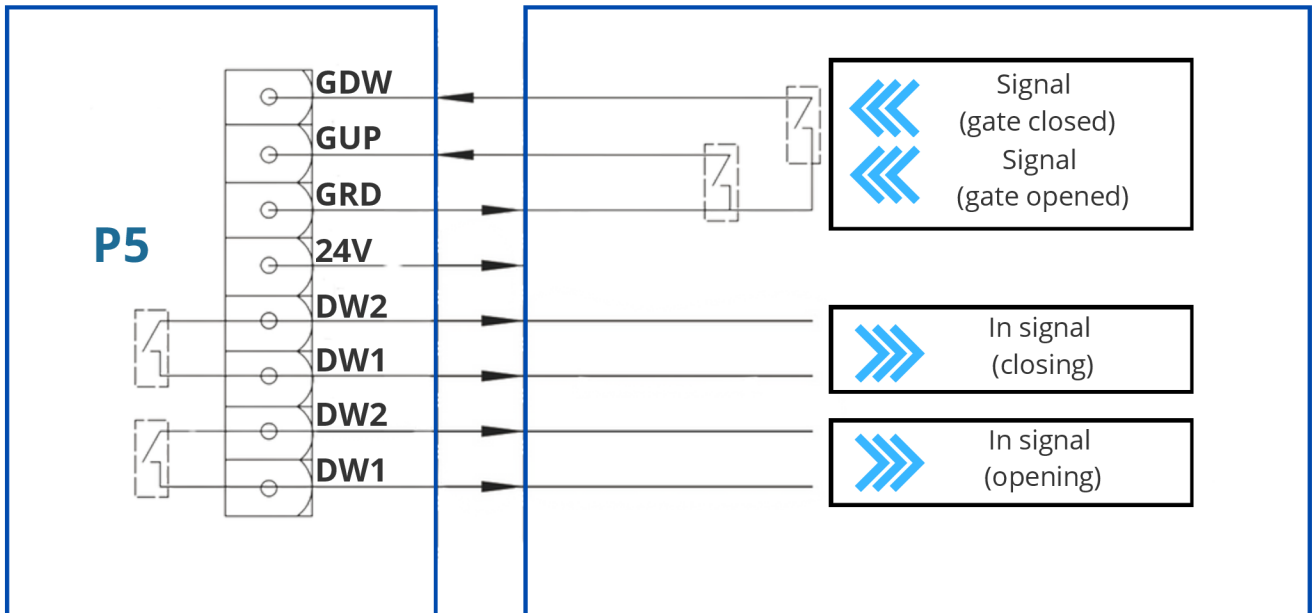
External Equipment



Terminal Block

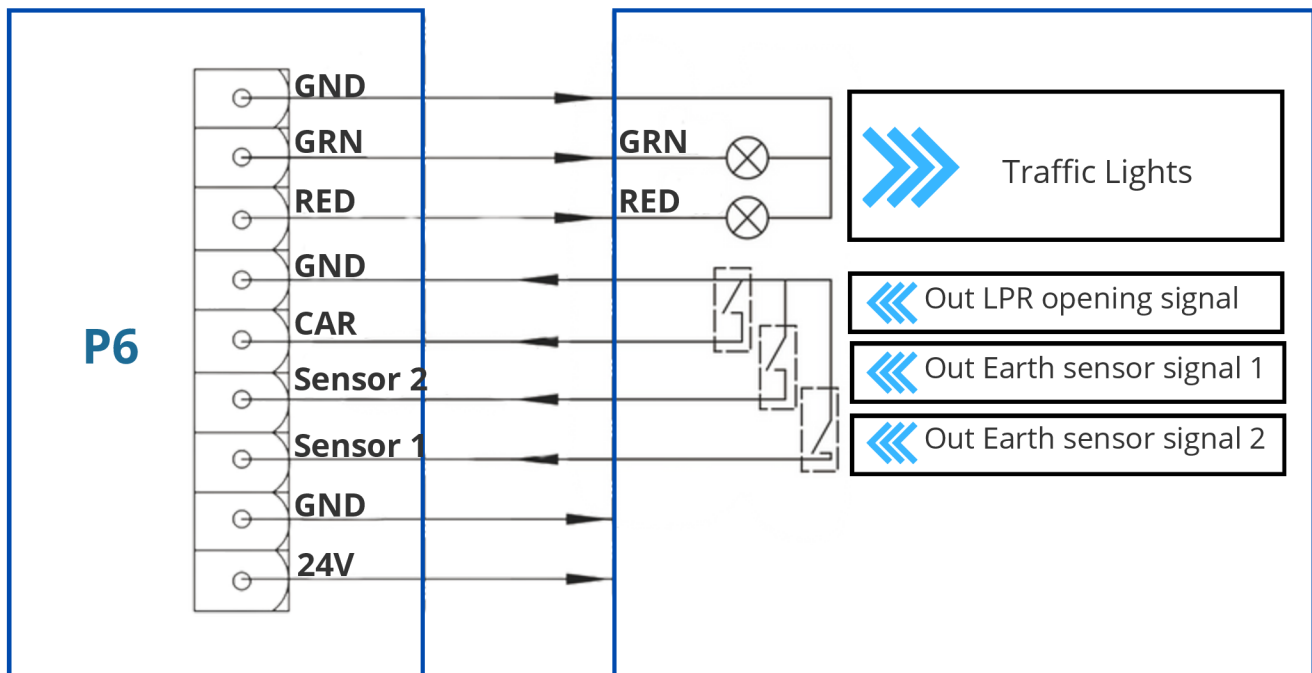
Bollard Control Unit

External Equipment



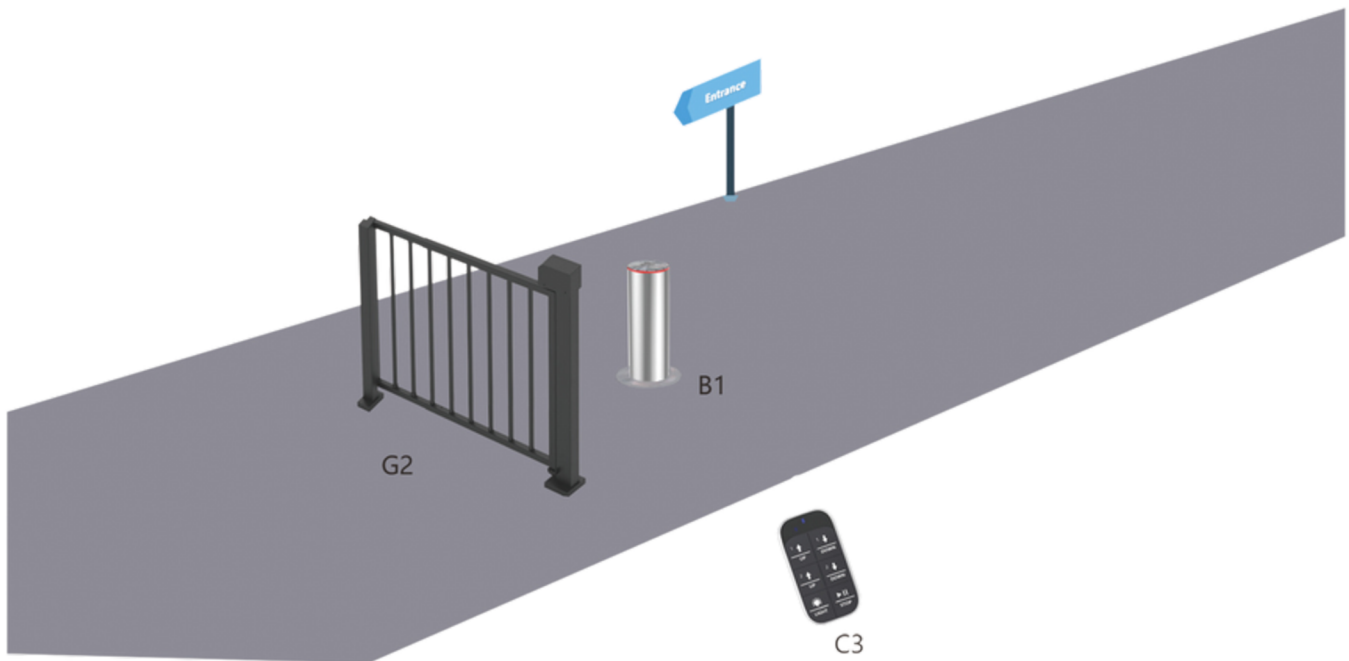
Bollard Control Unit

External Equipment



Installation Model

Bollard linked to electric swing gate



B1: Automatic Bollard

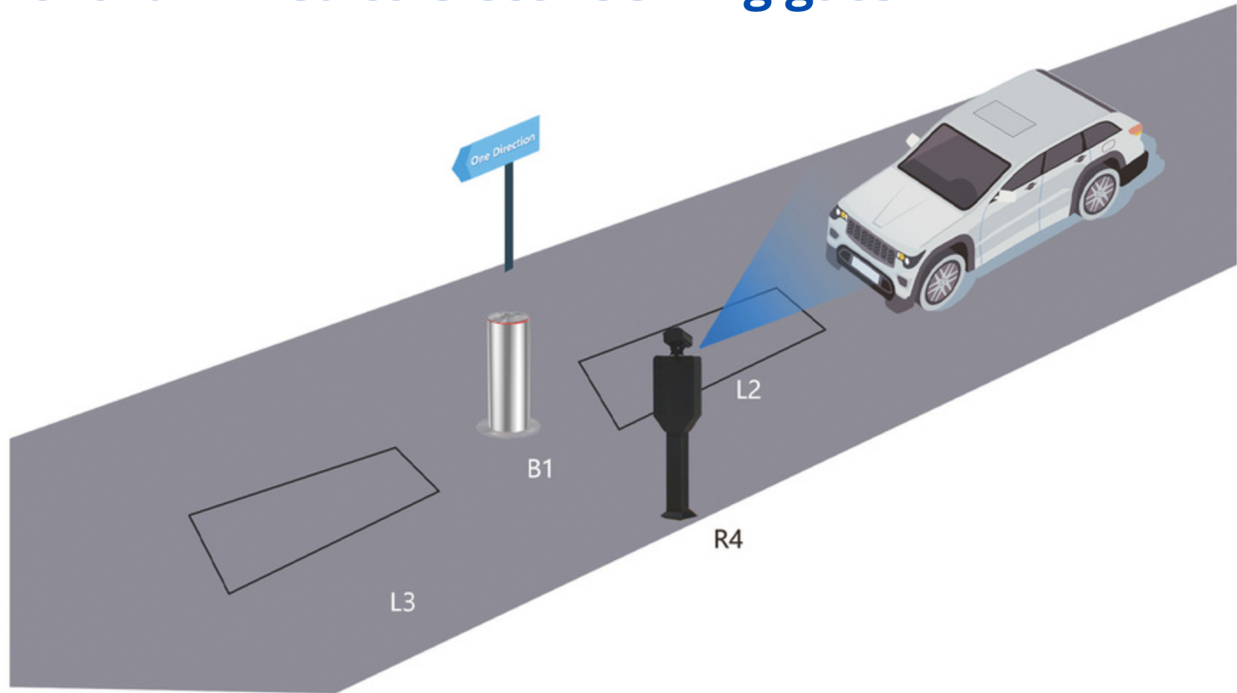
G2: Electric Gate

C3: Bollard Remote Fob

At some entrances and exits where electric gates are installed, one or more bollards can be installed for increased security (see above photo). The gates and bollards can be linked together for ease of use.

Installation Model

Bollard linked to electric swing gate



B1: Automatic Bollard

L2: Induction Loop

L3: Induction Loop

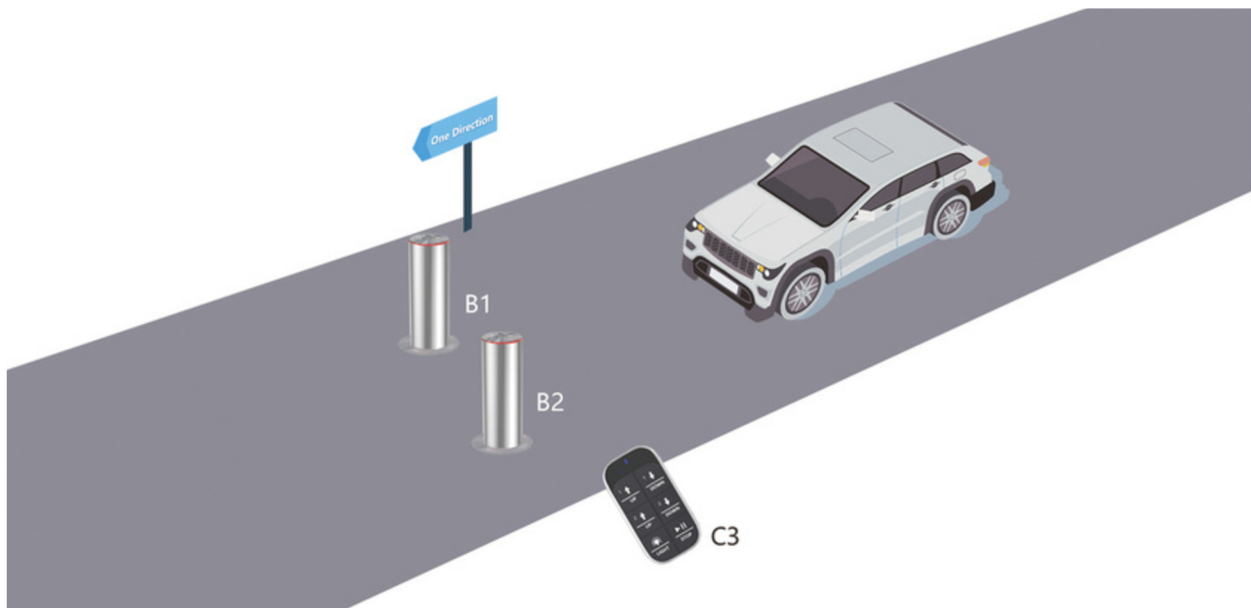
R4: Licence plate recognition camera

Install one or more automatic bollards as shown in the figure above at some locations where Licence Plate Recognition systems are installed.

Such an installation can greatly improve security while creating a faster entrance/exit management system.

Installation Model

Bollards Only



B1: Automatic Bollard

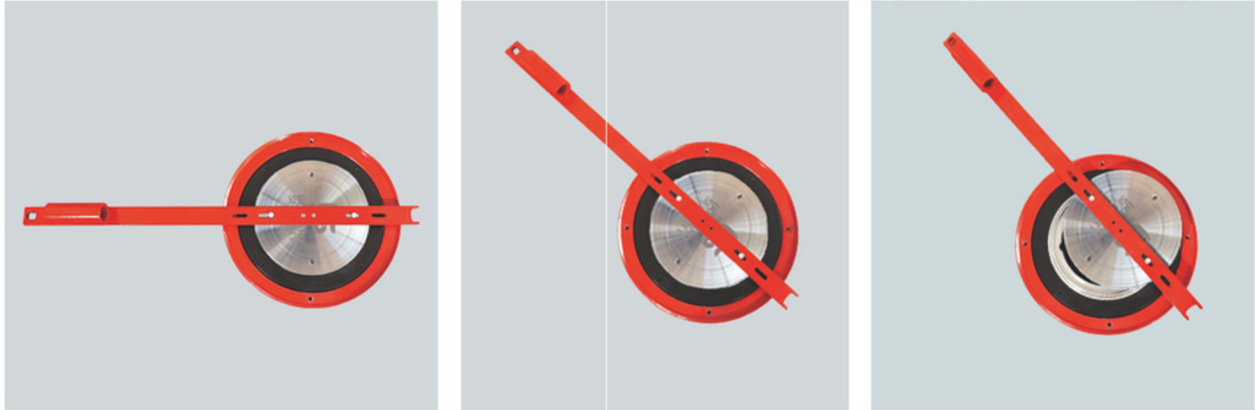
B2: Automatic Bollard

C3: Bollard Remote Fob

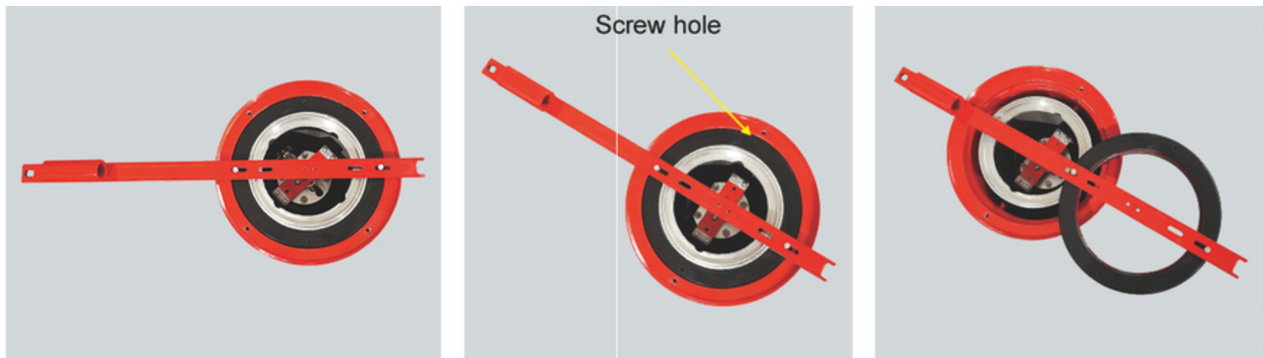
Automatic bollards are used as an anti-theft and anti-collision device that can greatly improve the security of entrances and exits. In most cases, the automatic bollard is installed and used as a product on its own, paired with a remote fob for the automatic bollard to control it.

Dismantling

Step 1: Disassemble the LED light cover flange plate.

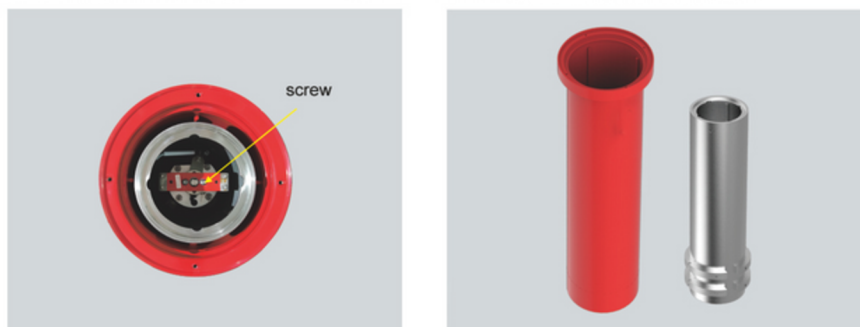


1. Use a hexagonal spanner to unscrew the 4 screws on the light cover. Then screw on the 2 auxiliary screws, rotate the light cover 45 degrees and remove it.



2. Screw on the 2 auxiliary screws to the retaining ring, rotate to the position at the screw hole with the inner barrel and lift the retaining ring upwards to remove it.

Step 2: Remove the bollard head



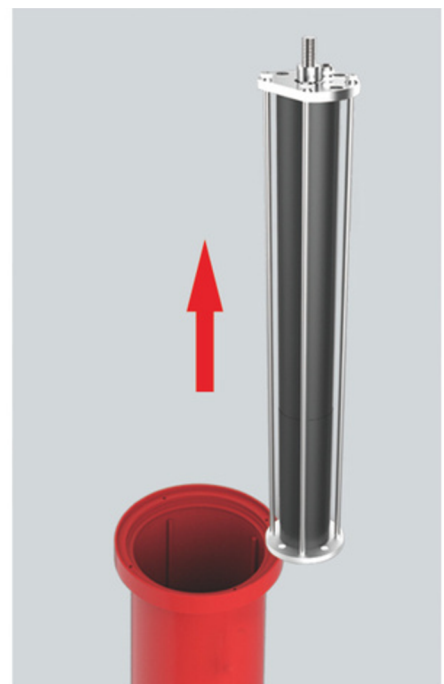
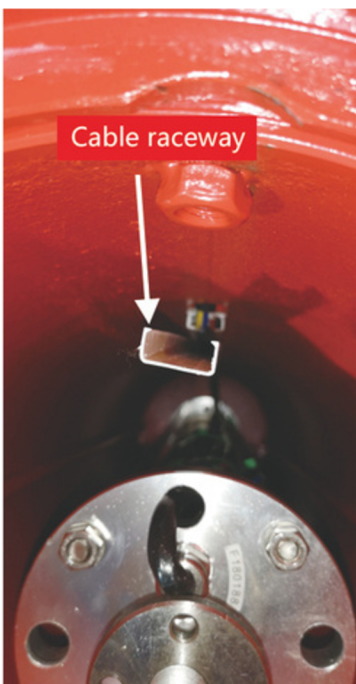
Use a spanner to unscrew the 2 screws on the crossbar of the inner bollard head (as shown above), then lift the bollard head upwards

Dismantling



Unscrew the long bolts on both sides of the actuator with the hexagonal spanner and remove them (the two in the middle)

Step 3: Remove the internal actuator



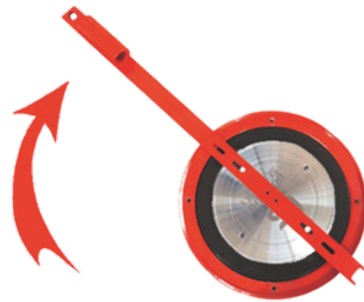
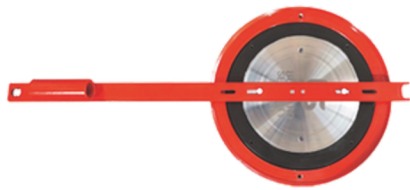
Remove the push rod by pulling out the cable slot cover and locating the actuator cable

Emergency Mechanical Release

Step 1: Remove the cover with the dismantling kit

Attach the dismantling kit to the LED light set cover with the four auxillary screws

Turn clockwise to the position shown below and lift up to remove the LED light set cover



Step 2: Release the bollards head

Unscrew the 2 screws on the crossbar.



Lift the bollards head, pivot the crossbar and lower the bollards head



After the pillar head is lowered as shown in the photo.



Step 3: Unscrew the actuator and cover the LED light set cover

Remove the fittings from the actuator.



Unscrew the actuator counter-clockwise.



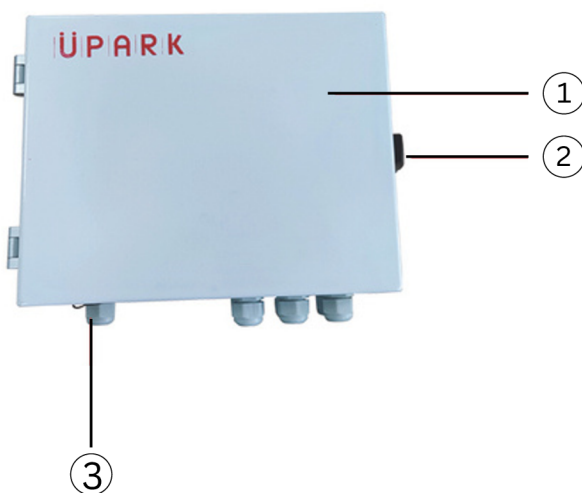
Re-cover



Emergency battery control

Emergency power for bollard release in the event of a power failure.

1. Open the control panel and remove the cover plate

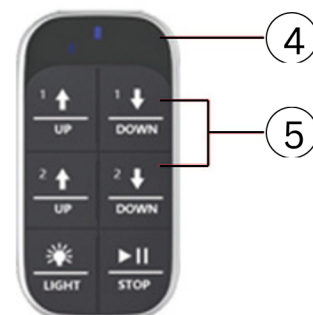
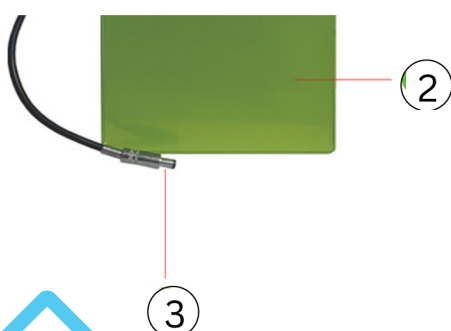


- ① Control panel
- ② Lock
- ③ Emergency battery port

2. Open the emergency power socket, plug in the emergency power supply and press the B button on the remote control to initiate the lowering of the bollard



- ① Emergency battery port
- ② Emergency battery
- ③ DC 2.5 plug



- ④ Remote fob
- ⑤ Down button



Telephone

Yorkshire 01535 509001

Midlands 01215 170832

London 020 34 888452

Head Office

Ash Ghyl, Bolton Road, Silsden
West Yorkshire, BD20 0NR

Email

sales@bollardsecurity.co.uk

info@bollardsecurity.co.uk

WWW.BOLLARDSECURITY.CO.UK