AUTOMATIC
GATE BARRIER

Parklio smart parking boom gate barrier is an automatic barrier controlled via smartphone used for guarding parking facilities, entrances to restricted areas, manufacturer floors, checkpoints, or any other kind of exit/entry points, controlling traffic in both directions.

With a modern look, robust and protective barrier - Parklio Gate - is designed to be resistant to all weather conditions. This smart rising arm gate offers long-term reliability, efficient operation and durability. A wide range of arm lengths makes Parklio Gate applicable to any type of space where there is a need for regulation. Parklio Gate is a perfect solution for controlling the entrance and exit from public and private areas, from small to big parking facilities.

- Smartphone controlled, operated via a free app (Android & iOS)
- Accurate and safe operation with encoder
- Automatic
- Weather-resistant
- Smooth and efficient operation
- Digital keys sharing option
- Dongle controlled
- Obstacle detection
- Auto-close option upon departure of the vehicle
- Automatic learning of end-stop positions of the barrier in opening and closing
- Secure operation with safety devices
- Possibility of integration with other systems

Arm length	3 – 6 m
Power supply	230 V – 50 Hz
Motor power supply	24 Vdc
Motor maximum power	240 W / 300 W
Opening time	3 – 5 s (depending on arm length)
Duty cycle	80% (200 cycles/ hour)
Protection degree	44 IP
Weight	40 – 55 kg (depending on arm length)

Accessories

End support post

Pillar for photocells

Joint for arm

2m barrier arm skirt

Reflective stripes

Lights kit

Backup battery

Magnetic loop detector

Cover with integrated flashing lights

Dongle

Parklio

PARKLIO™ GATE

TECHNICAL SHEET

TABLE OF CONTENTS

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Hercegovacka 78, 21 000 Split | Commercial Court in Split | MBS: 060323069 | Raiffeisen Bank, Zagreb, Petrinjska 59 | IBAN: HR7724840081107194017 | VAT: HR60755958894

PARKLIO™ GATE

Parklio™ Gate is an automatic gate barrier **controlled via smartphone** and it is used for guarding car parks, entrances, restricted areas, checkpoints, or any other kind of exit/entry point, controlling road traffic in both directions.

Parklio™ Gate, robust and protective, is **made of powder-coated steel** and designed to be resistant to all weather conditions. This smart rising arm gate offers long-term reliability, efficient operation, and durability.

A wide range of gate arm lengths makes Parklio™ Gate applicable to any type of space where there is a need for regulation. Automatic Parklio™ Gates are a perfect solution for controlling the entrance and exit from public and private areas, from small to big parking facilities.

The packaging includes:

1 x Parklio™ Gate

1 x Arm

1 x Arm bracket with the plastic cover

4 x Anchors

1 x Photocells

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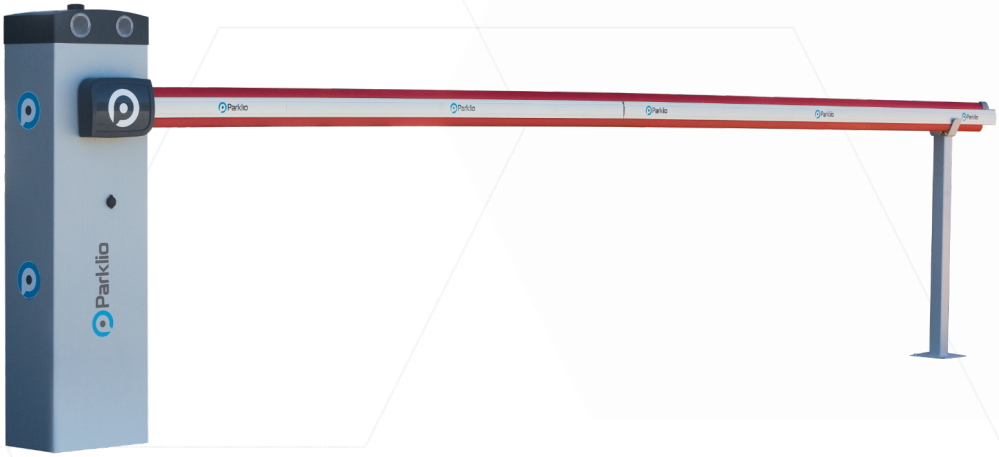

Figure 1: Parklio™ Gate

Accurate and safe operation with **encoder**

Obstacle detection

Self-learning of opening and closing times

App-controlled (Parklio™ Connect)

Synchronized operation of two barriers using the **SYNCRO** module

Balancing spring included

Anodized aluminum boom (accessory)

Programmable acceleration and deceleration

Operation in case of absence of power using the **B-PACK backup battery**

Operation with **solar power using the ECO-LOGIC system**

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CONTROL UNIT

- Programming achieved using 3 buttons and display
- Plug-in adapter for modular radio receiver MR2
- Input for photocells with self-test function
- Input for mechanical safety edges
- Courtesy light output
- Self-learning of the limit switch points and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down in the limit switch area
- Monitoring of input status using the display
- SYNCRO optional modules
- Holding magnet output
- 24V flashing light output
- Energy Saving function to minimize consumption in stand-by mode

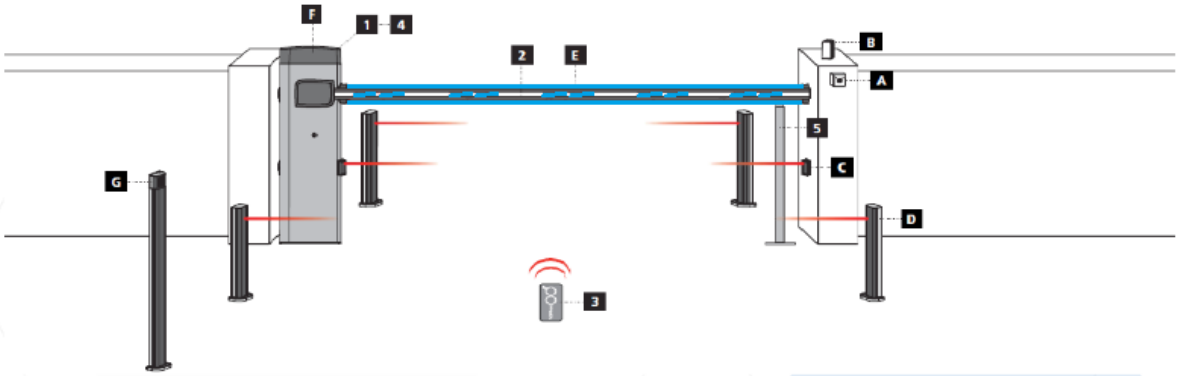

Figure 2: Gate Parts and Components

Additional Accessories

A. Key switch
B. Flashing light
C. Photocells
D. Pillar photocells
E. Lights kit (boom)
F. Lights kit (gate)
G. Pillar-mounted digital radio switch

Components

1. Motor
2. Boom
3. Transmitter
4. Receiving module
5. End support post

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PARKLIO™ GATE MODELS

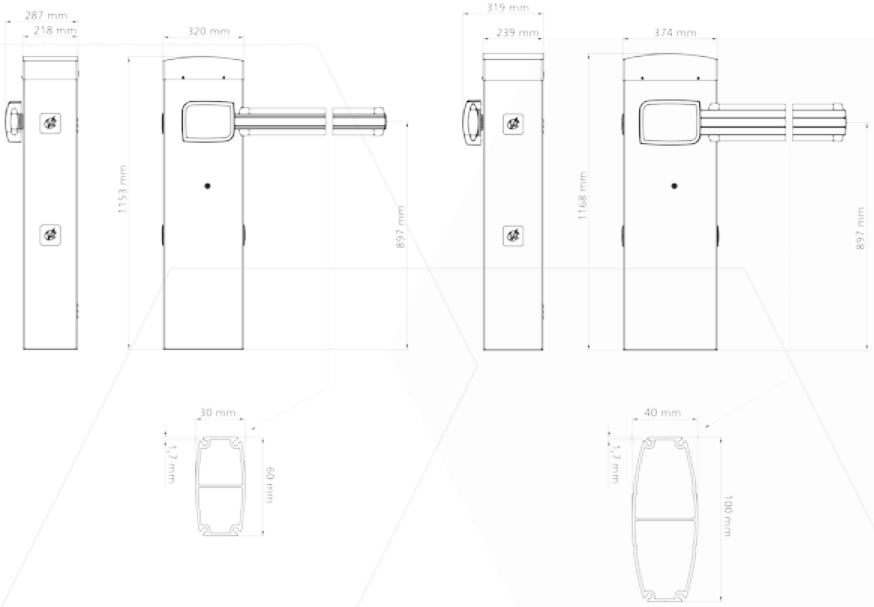

Figure 3: Gate Models' Dimensions

PARKLIO GATE 4		PARKLIO GATE 6	
Arm length	2 - 4 m	Arm length	4 - 6 m
Power supply	230 V – 50 Hz	Power supply	230 V – 50 Hz
Motor power supply	24 Vdc	Motor power supply	24 Vdc
Motor maximum power	240 W	Motor maximum power	300 W
Opening time	3 – 5 s (depending on arm length)	Opening time	5 – 6 s (depending on arm length)
Working temperature	-20 - +55°C	Working temperature	-20 - +55°C
Duty cycle	80% (200 cycles/hour)	Duty cycle	80% (150 cycles/hour)
Protection degree	44 IP	Protection degree	44 IP
Weight	44 kg	Weight	52 kg

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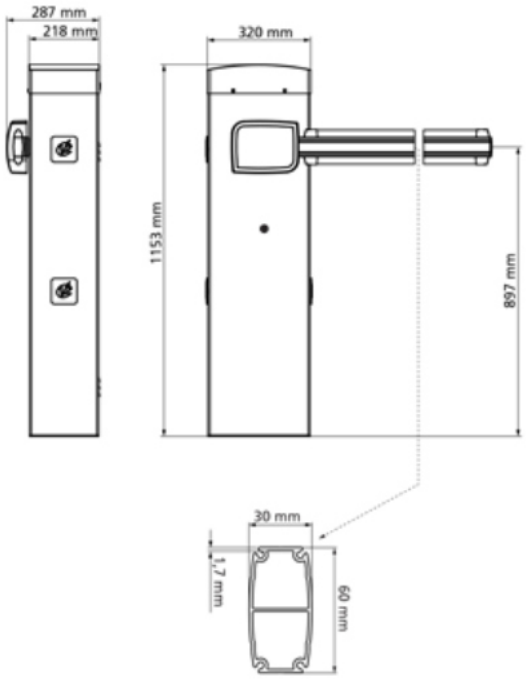
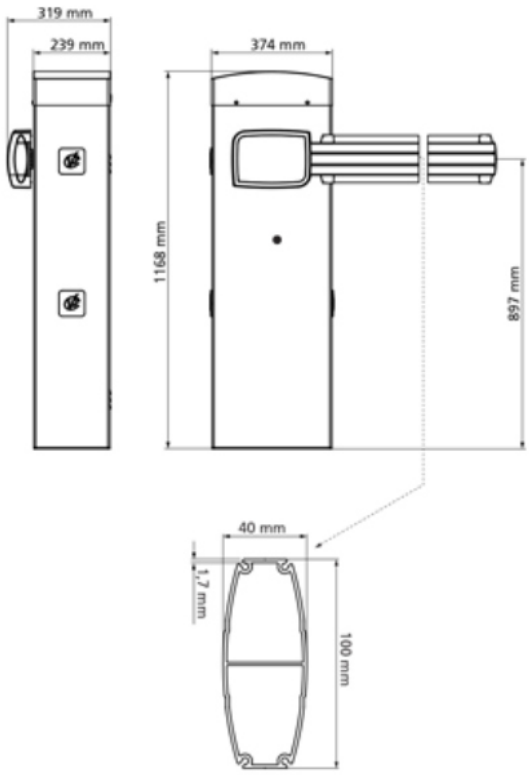


Figure 4: Parklio™ Gate 4 Dimensions

PARKLIO™ GATE 6



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PARKLIO™ GATE APOLLO (SOLAR MODEL)

Other than the regular models, Parklio™ Gate comes also with additional solar panel kit. With this kit, Parklio™ Gate **doesn't require connection to constant power supply**. The solar panel will always recharge the batteries inside the Gate, even when it is cloudy.

The **ECO LOGIC kit** consists of the solar panel and accumulator that generates the panel. The solar kit is installed separately from the Gate and should be put on the surface exposed to the sun, away from plants, walls or anything else that might cast shadows.

Voltage output toward the control unit	24-28Vdc*
Maximum current	16A
Battery capacity	18Ah
Protection level	IP44
Operating temperature	0 - +40°C charging -20 - +50°C in use
Mains recharge time	~ 15 h
Dimensions	267x188,2x198 mm
Weight	12 Kg

Table 2: Accumulator Unit

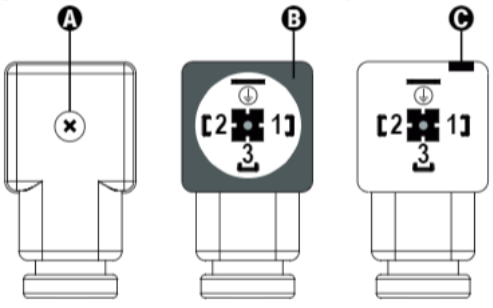

Figure 6: Accumulator Unit

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Maximum voltage without load	42Vdc
Voltage at maximum power point	33,6Vdc
Peak nominal power	20W
Operating temperature	-20 - +80°C
Dimensions	308x28x604 mm
Weight	2,2 Kg

Table 3: Solar Panel

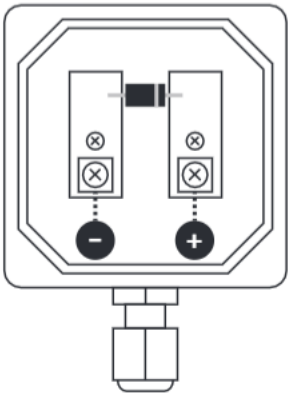

Figure 7: Solar Panel Connectors Unit

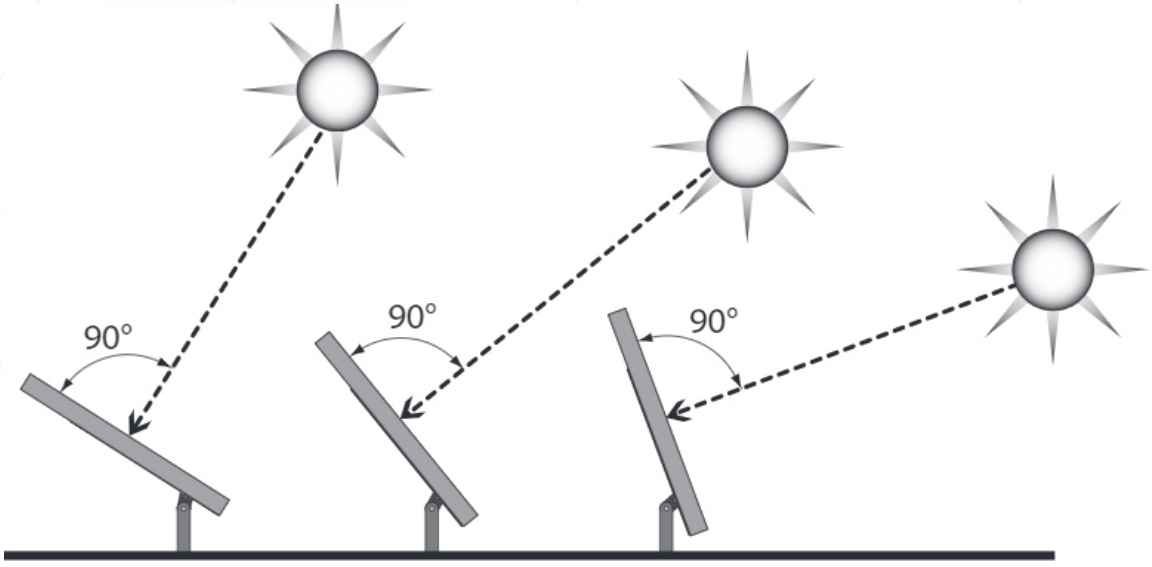

Figure 8: Solar Panel Position

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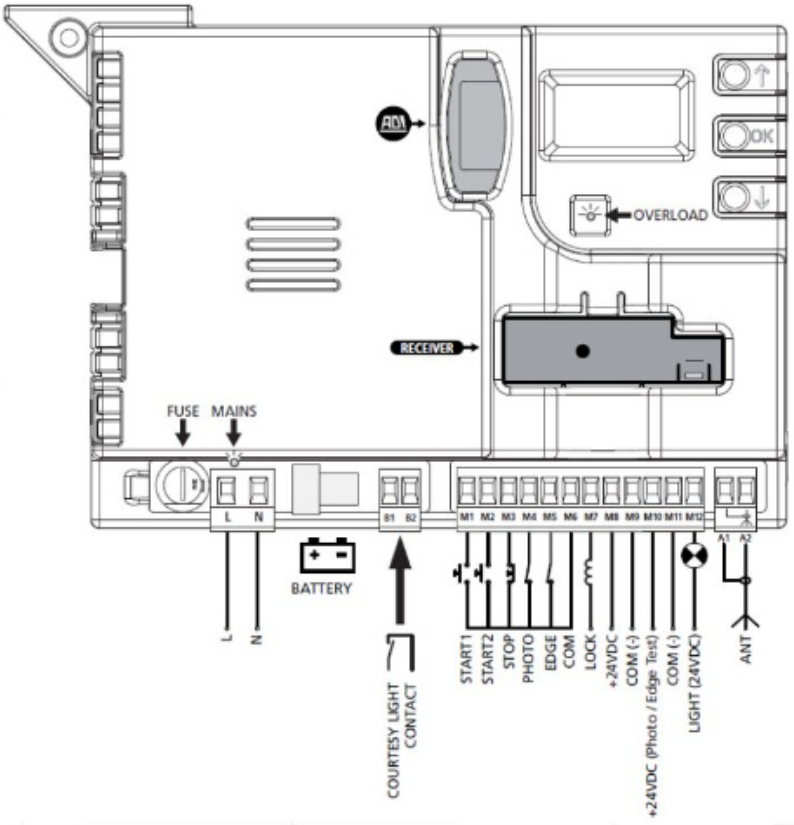
REQUIRED CABLE DIMENSIONS

Power supply*	3G x 1,5 mm^2
Photocells (TX)*	2 x 0,5 mm^2
Photocells (RX)*	4 x 0,5 mm^2
Key switch	2 x 0,5 mm^2
Flashing light	2 x 1,5 mm^2

Table 4: Cable Dimensions

***Note:** For photocells is recommended to use UTP CAT5 cable. Power supply cable, for distances from 20-30 meters should be 3G x 2.5 mm.*

CONTROL BOARD



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CONTROL BOARD LEGEND

L	Power supply feeding 230 Vac	**M6**	Common (-)
N	Neutral feed 230 Vac	**M7 – M8**	Holding magnet power output
B1 – B2	Contact N.A. (max. 230 V, 5 A) for additional courtesy light or flashing light	**M8**	Power output 24 Vdc for photocells and other accessories
M1	START1 – Activation input 1 for connection of traditional devices with N.O. (normally open) contact	**M9**	Accessory power common (-)
M2	START2 – Activation input 2 for connection of traditional devices with N.O. (normally open) contact	**M10**	Power supply – photocell/optical edge TX for functional Test. Connect power supply cables of photocells transmitter between terminals M10 and M9
M3	STOP Command N.C. (Normally closed) contact	**M11 – M12**	Low voltage light output (Warning light or flashing light (24 V))
M4	Photocells N.C. (Normally closed) contact	**A1**	Antenna shield
M5	Safety ribbon	**A2**	Antenna

Table 4: Connection Terminals

RECEIVER	Plug-in receiver* provided as a separate module
FUSE	2.5 A
MAINS	It signals that the control unit is being powered
OVERLOAD	It signals an overload on the accessories power supply

Table 5: Control Panel Sockets, Fuses and Indicators

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ANTENNA

Frequency range	2400 Mhz – 2500 Mhz
V.S.W.R.	1.5:1
Bandwidth	100 Mhz
Polarization	Vertical
Radiation	Omni directional
Impedance	50 Ω
Max wind speed	200 km/h
Size	Ø80 mm x 14 mm
Working temperature	-40 °C - +85 °C
Ingress Protection Code	IP 67

Table 6: Antenna Specifications

PARKLIO™ BRAIN

Parklio™ Brain enables **control of the existing parking solutions with a smartphone**. By integrating the module, it will be possible to benefit from all the advantages of smart Parklio™ solutions - control via a free mobile app, key sharing options, real-time information, user-friendly parking management interface, and the possibility of integration with any other information system.

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INSTRUCTIONS AND SUPPORT:

www.parklio.com/support/

APPLICATION DOWNLOAD:

(Android)

https://play.google.com/store/apps/details?id=com.parklio.parklio746237&hl=en_US

(Apple)

https://itunes.apple.com/hr/app/parklio/id1316429271?mt=8

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The packaging includes:

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1 x Arm

1 x Arm bracket with the plastic cover

4 x Anchors

1 x Photocells

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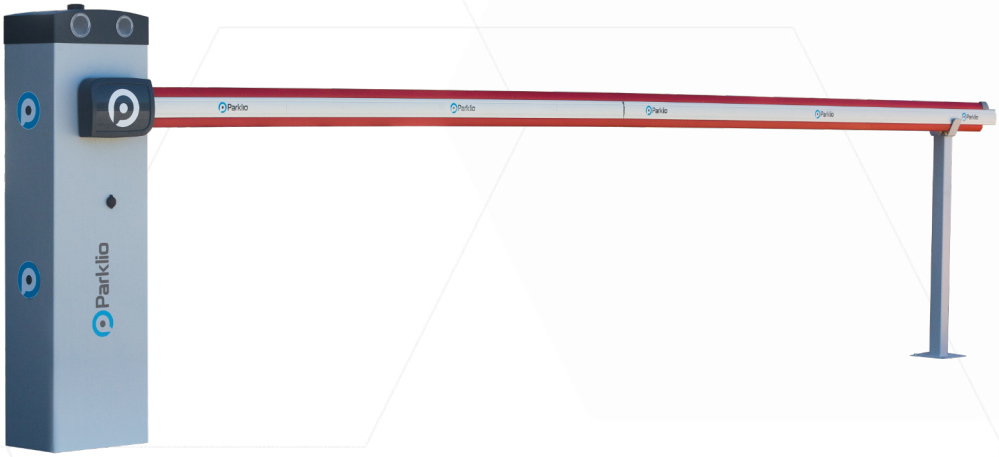

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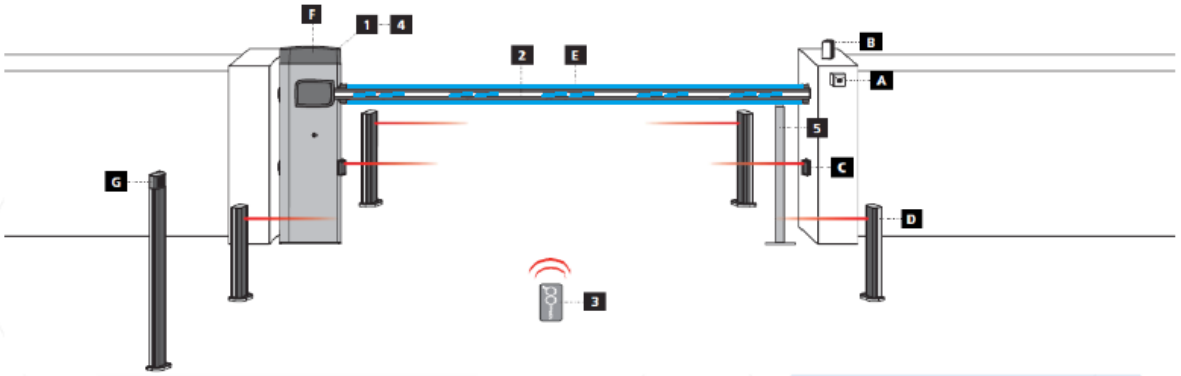

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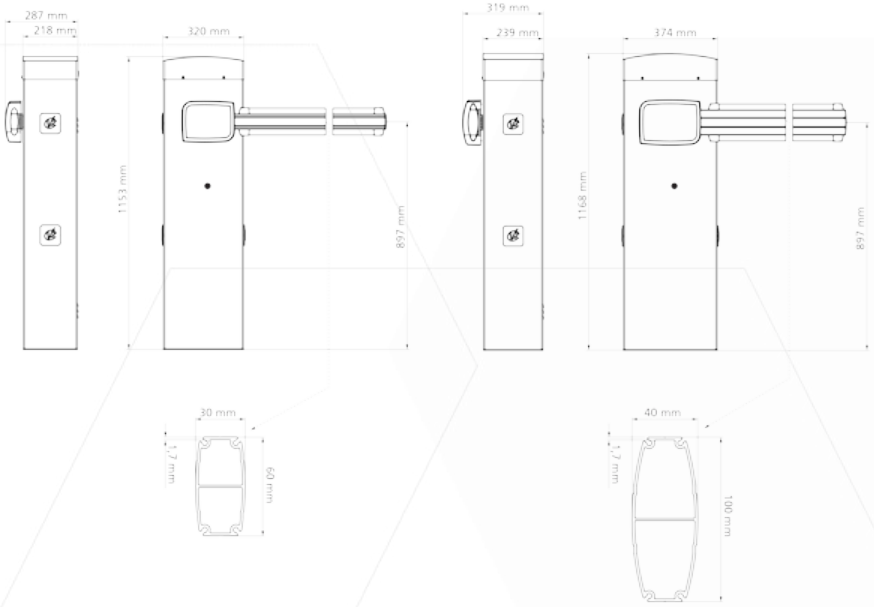
PARKLIO™ GATE MODELS



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Working temperature	-20 - +55°C	Working temperature	-20 - +55°C
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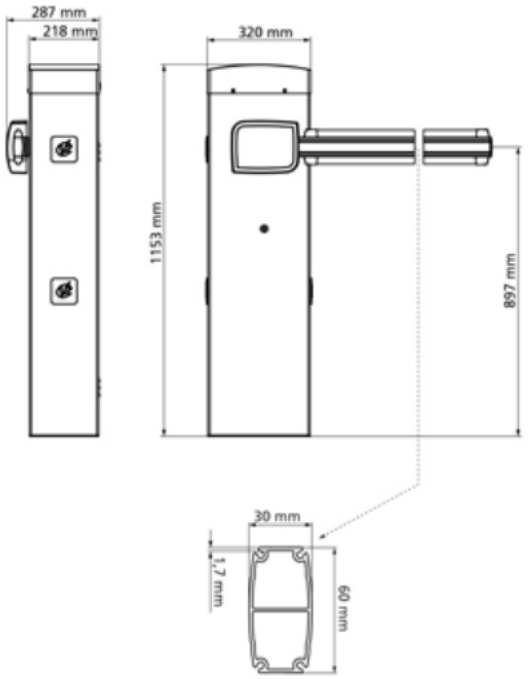
PARKLIO™ GATE 4



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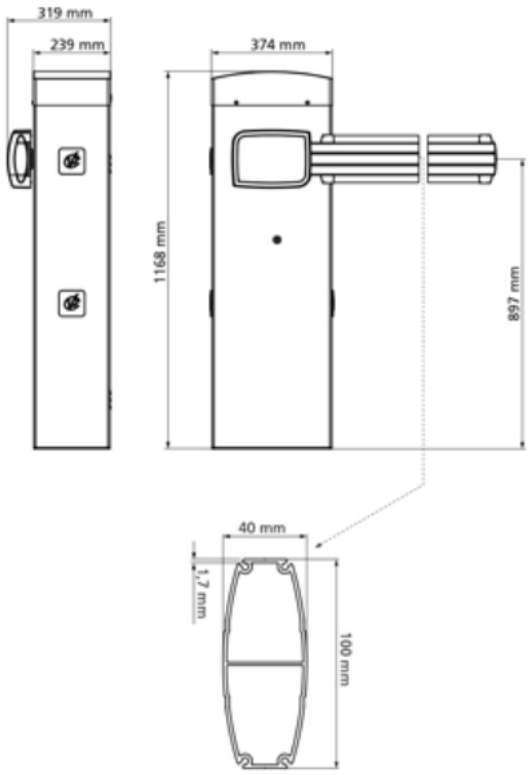
PARKLIO™ GATE 6



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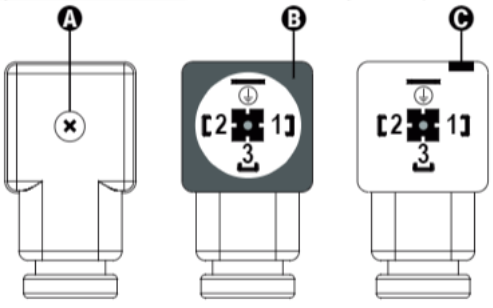

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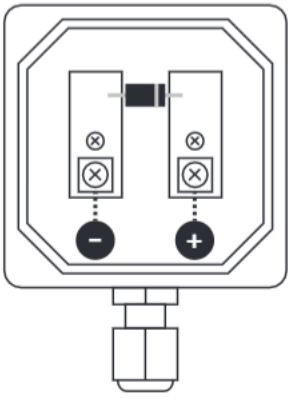

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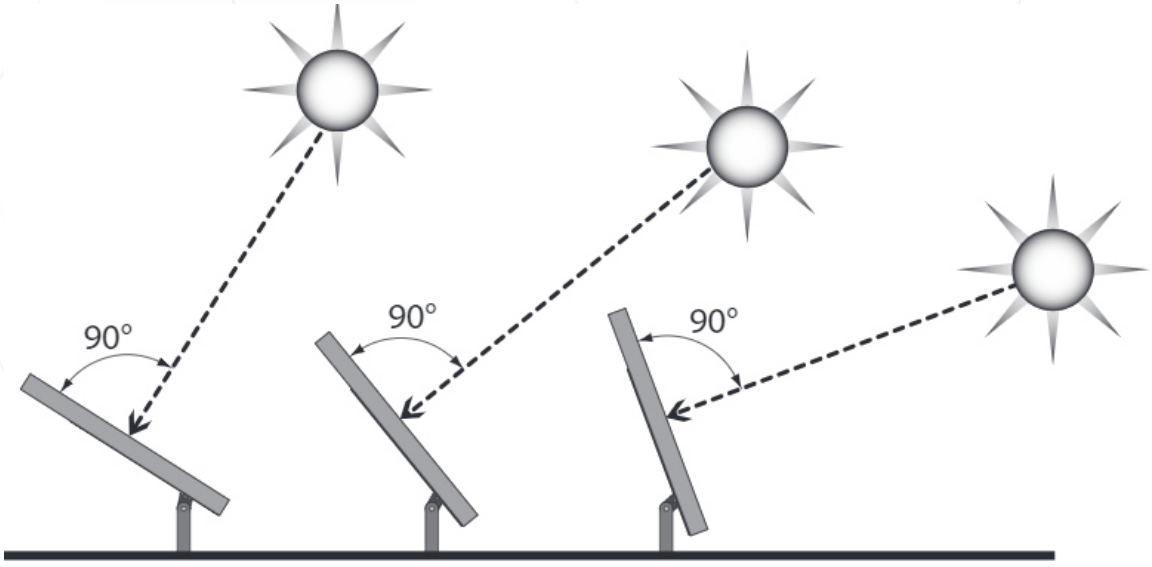

Figure 8: Solar Panel Position

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***Note:** For photocells is recommended to use UTP CAT5 cable. Power supply cable, for distances from 20-30 meters should be 3G x 2.5 mm.*

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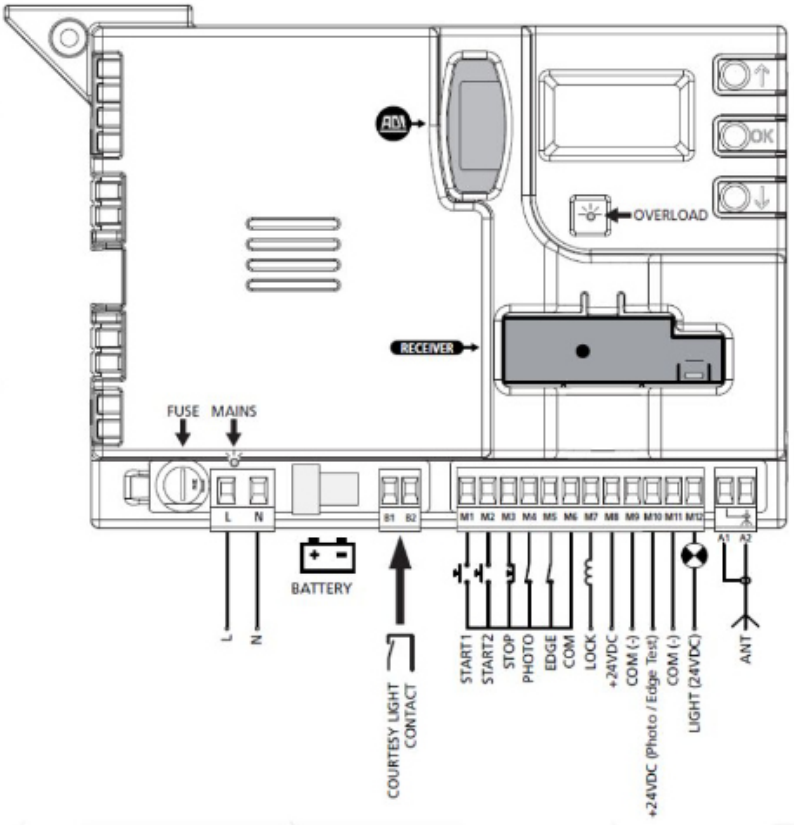

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Table 5: Control Panel Sockets, Fuses and Indicators

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Hercegovacka 78, 21 000 Split | Commercial Court in Split | MBS: 060323069 | Raiffeisen Bank, Zagreb, Petrinjska 59 | IBAN: HR7724840081107194017 | VAT: HR60755958894

ANTENNA

Frequency range	2400 Mhz – 2500 Mhz
V.S.W.R.	1.5:1
Bandwidth	100 Mhz
Polarization	Vertical
Radiation	Omni directional
Impedance	50 Ω
Max wind speed	200 km/h
Size	Ø80 mm x 14 mm
Working temperature	-40 °C - +85 °C
Ingress Protection Code	IP 67

Table 6: Antenna Specifications

PARKLIO™ BRAIN

Parklio™ Brain enables **control of the existing parking solutions with a smartphone**. By integrating the module, it will be possible to benefit from all the advantages of smart Parklio™ solutions - control via a free mobile app, key sharing options, real-time information, user-friendly parking management interface, and the possibility of integration with any other information system.

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INSTRUCTIONS AND SUPPORT:

www.parklio.com/support/

APPLICATION DOWNLOAD:

(Android)

https://play.google.com/store/apps/details?id=com.parklio.parklio746237&hl=en_US

(Apple)

https://itunes.apple.com/hr/app/parklio/id1316429271?mt=8

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