Smart parking barrier

IO Board

RLY1 N.O.

RLY2 N.O.

AUX IN N.C.
CLOSE IN N.O.
OPEN IN N.O.

RLY1
RLY1
RLY2
RLY2
COM
AUX
CL
OP

J3
J2
J1

V+
V-
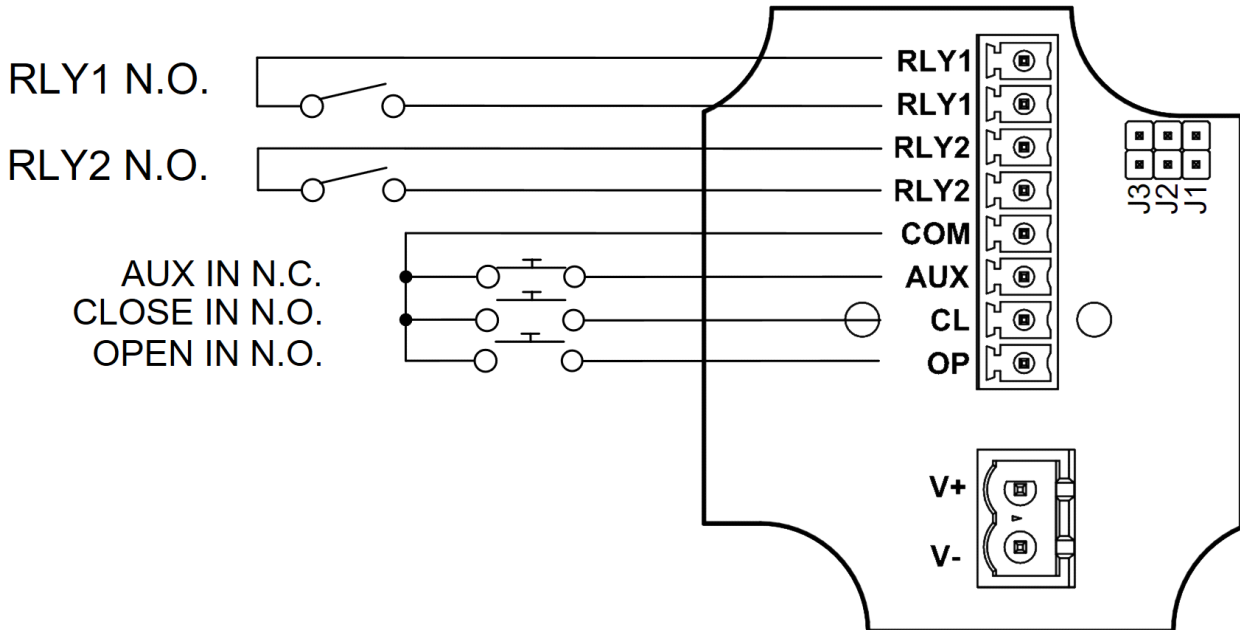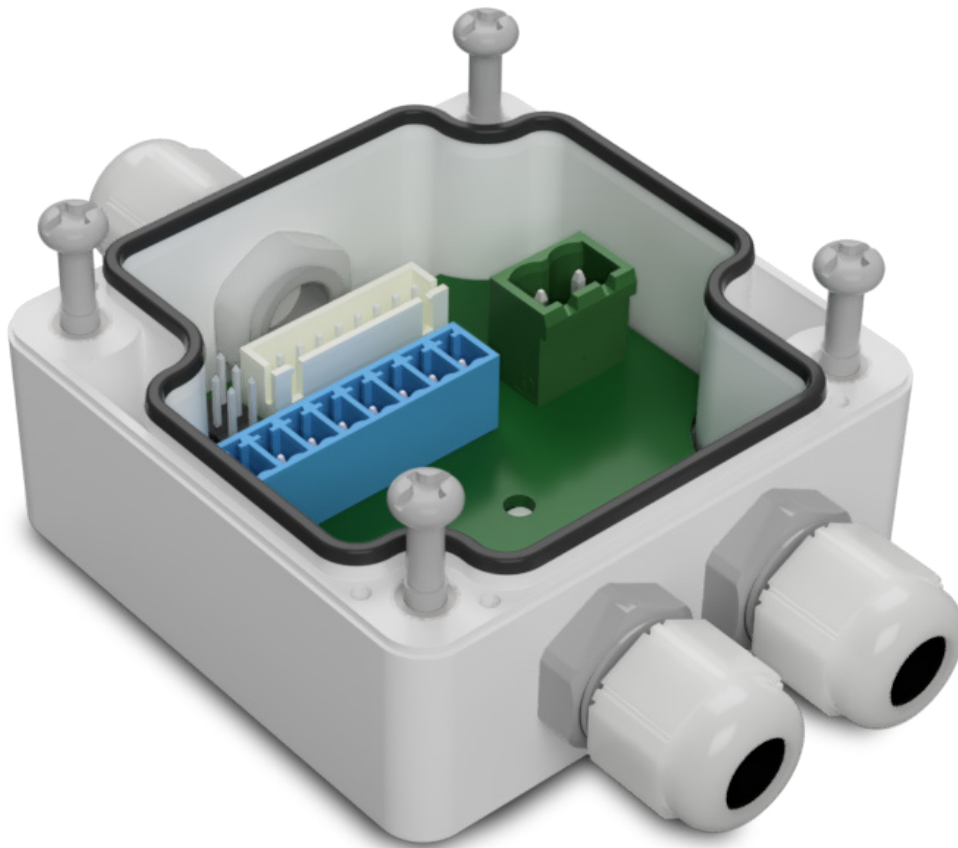
◼ Parklio IO board

The Parklio Barrier has the option of a control IO board.
When the IO board is used the barrier must be powered via external 9-12V 5A DC power supply.

The IO board features:

- Power supply input connector
- 2 x configurable relay output
- 3 x digital control input
- Configuration jumpers

Parameter	Value
Input voltage	9V DC – 13V DC
Maximum power	60 W
Operating temperature	-20°C to +60°C
Relay Contact N.C.	60V, 50mA, < 10Ohm Overcurrent and overvoltage protection
Input Contacts	40V max input, 2mA pullup current Input active voltage threshold: <2V

Electrical characteristics

Contact (pins)	Description
RLY1 (1 and 2)	N.O. Relay 1 output Configurable *OPEN* or *Vehicle detected*
RLY2 (3 and 4)	N.O. Relay 2 output Configurable *CLOSED* or *Vehicle detected*
AUX IN (5 and 6)	N.C. Safety device input The current movement is stopped if the pins are opened. No commands are accepted while the contacts are open.
CLOSE IN (5 and 7)	Close command input If the contacts are closed the barrier will move up (close). The barrier will remain closed as long as the contacts are closed.
OPEN IN (5 and 8)	Open command input If the contacts are closed the barrier will move down (open). The barrier will remain open as long as the contacts are closed.

IO Contact function

The functions of RLY1 and RLY2 outputs are configured via jumpers J1 and J2. The available output functions are described in the table below.

J1	J2	RLY1	Value
Open	Open	Barrier opened	Barrier closed
Open	Closed	Barrier opened	Vehicle present
Closed	Open	Vehicle present	Barrier closed
Closed	Closed	Not used	Not used

Output configuration