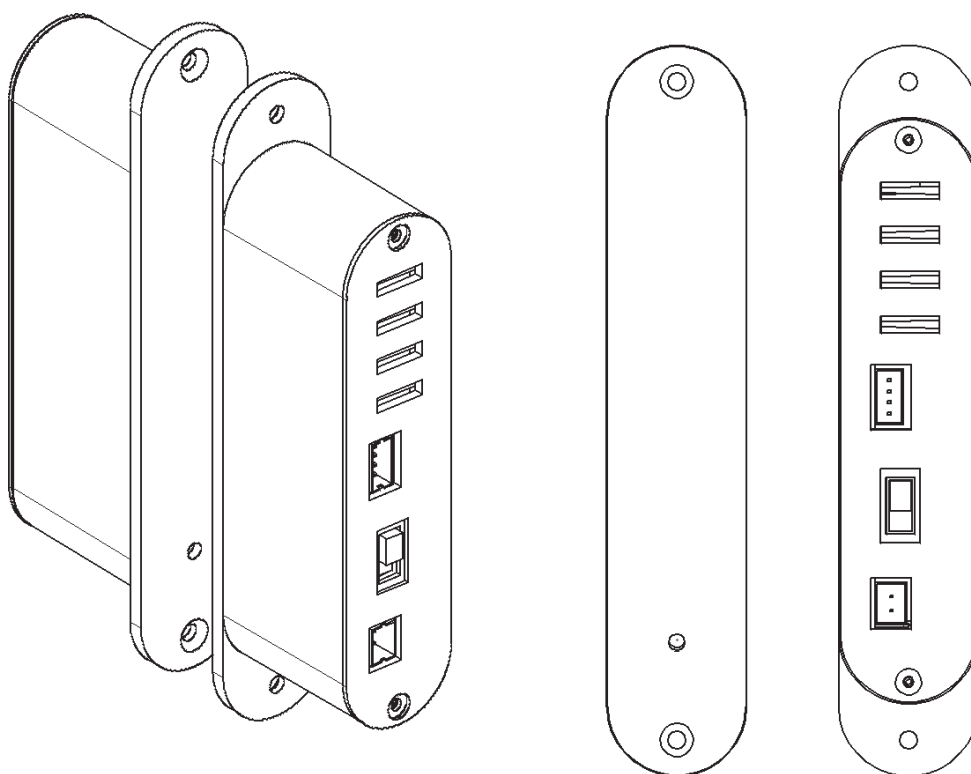




# PowerJack

## Installation Manual

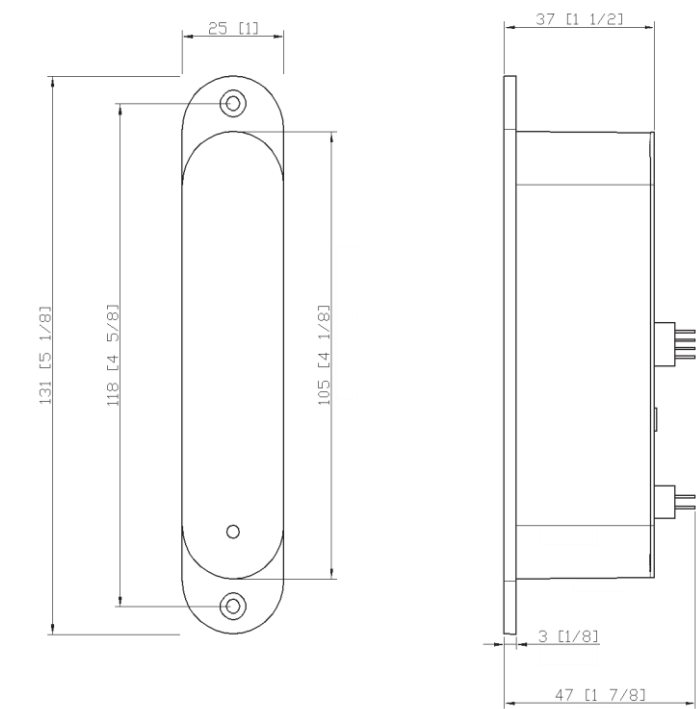


## Technical Information(STA)

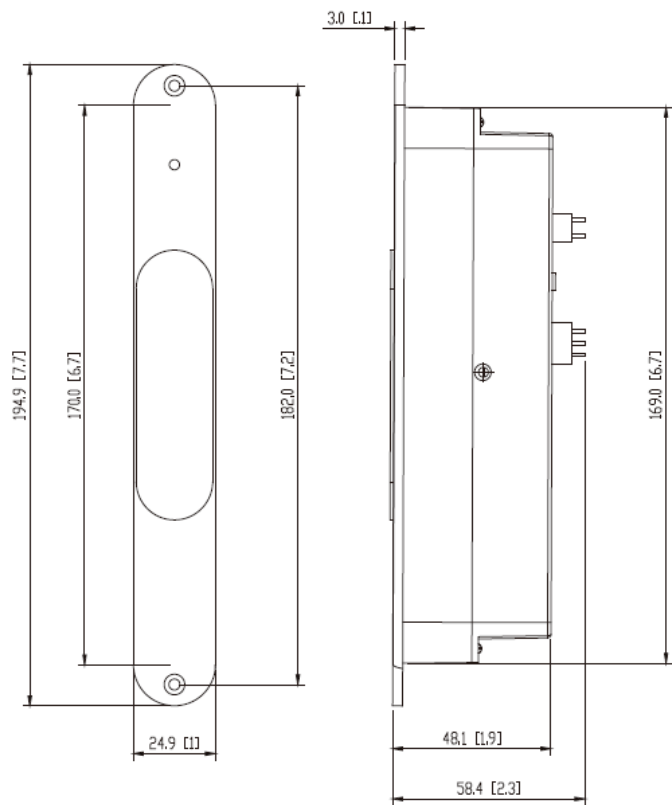
I/O	<b>Dimensions</b>	<b>Frame Side&amp;Door Side:</b>	Atype:131x25x37 mm    Btype:195x25x50 mm
		<b>Use with</b>	Fail Secure/PTO Locks Only
		<b>Electrical rating</b>	Input 600mA, 24V DC, powered by Class 2 or Class 3 power limited source. The length of connect cable is not great than 30m. Output 500mA f 12V DC f 250mA f 24V DC
		<b>Max door gap:</b>	7.0mm; Horizontal < 2mm, vertical < 2mm with door gap 5.0mm
		<b>Door side (Receive):</b>	DI X 2(REX,LLS)
		<b>Frame Side (Side):</b>	DO X 2 Solid State Relay - 60V AC/DC, 200 mA - Door Status (Door Position) - Error Status DO X 2(NC/NO/COM) for Door Side DI X 2 - 30VDC,1A / 125VAC,300mA Door Open Timer - 3 Seconds(Fix Timer) - 1~90 Seconds(by Control)
		<b>LED Indicator</b>	Bi-Color LED @ Frame Side
		<b>Operating Temperature</b>	-20℃~60℃
	<b>Package Contents</b>		<b>Recommended Tools</b>
	1. Door side unit 2. Frame side unit 3. M3 wood self-tapping screws*4 4. M3 metal self-tapping screws*2 5. M3 countersunk screws*8 6. Washer*6		1. Screwdriver 2. Electrodrill 3. Drill bit 4. Center chisel 5. Pencil 6. (wood)firmer chisel 7. Rotary grinding tool

PowerJack Dimensions

Atype



Btype



Unit: mm / inch

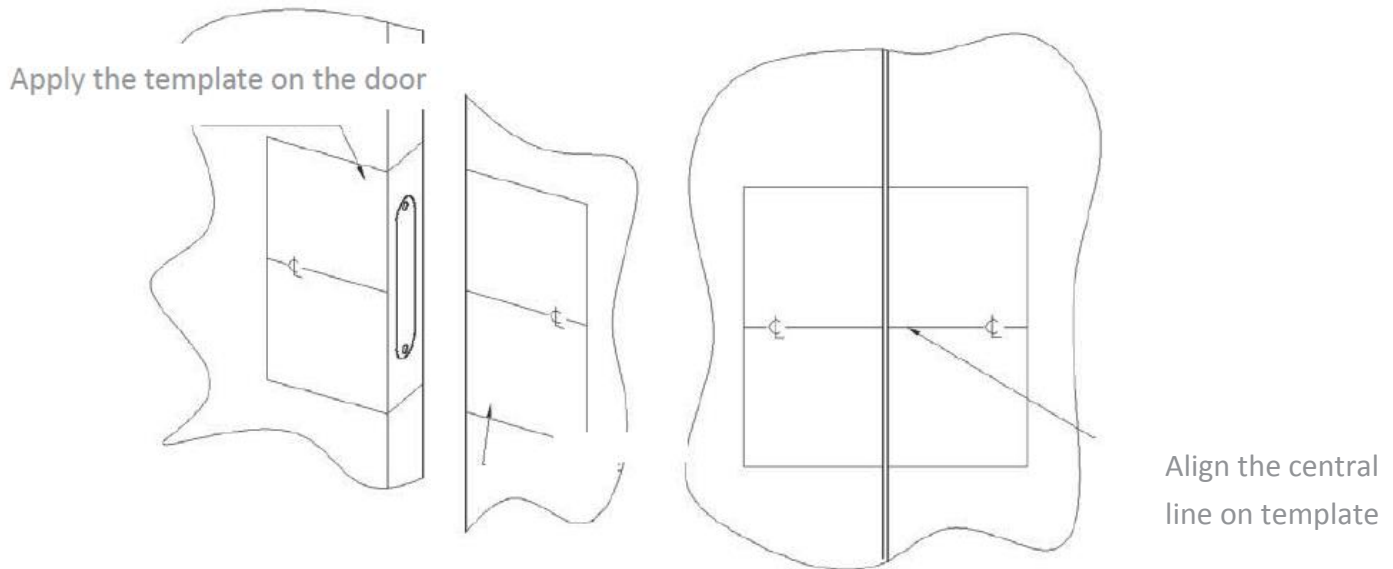
## Installation Steps

### Step1: Survey installation site

Requires depth of 47mm (1 7/8") in both of frame and door side

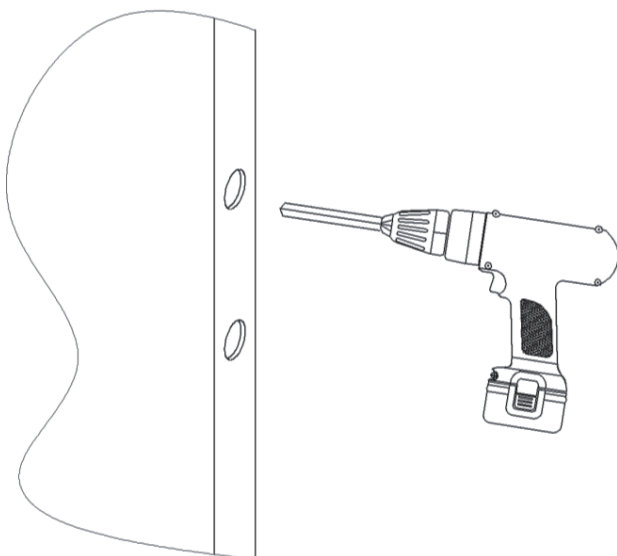
### Step2: Location

Apply the templates on the door side& frame side, make sure door side& frame side are aligned.

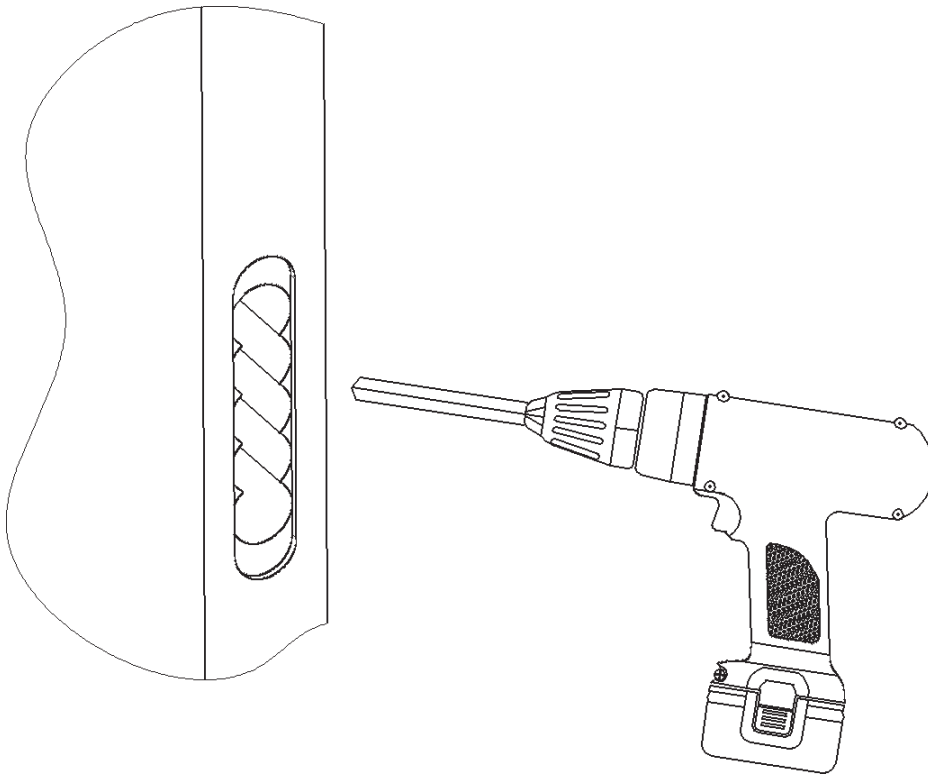


### Step3: Installation in wood door or frame

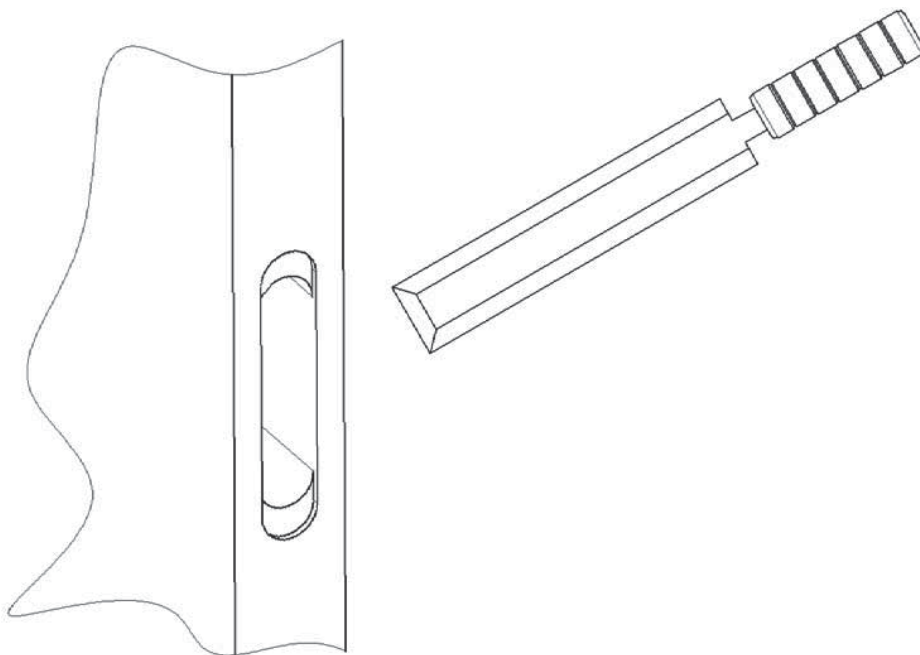
- Drill a hole for faceplate of depth of 3mm[1/8"] and diameter 25mm[1"] in the marked place by Electrodrill.



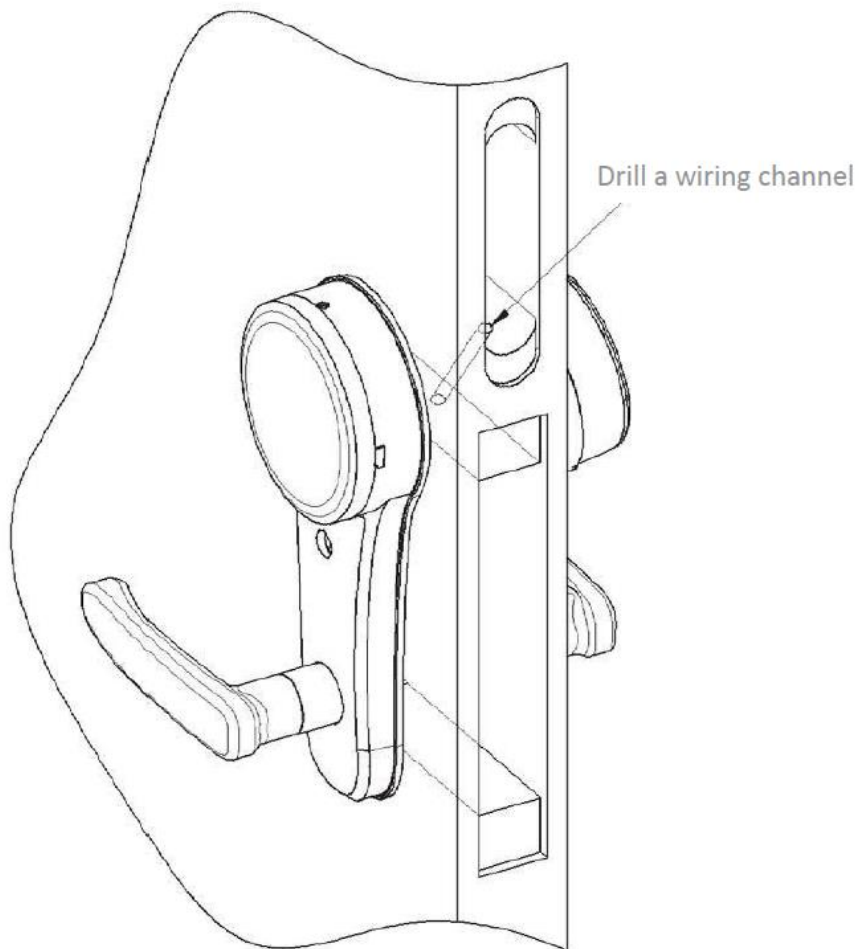
- b. Drill a hole for PowerJack of depth of 7mm[1 7/8"] and diameter 25mm[1"] in the marked place.



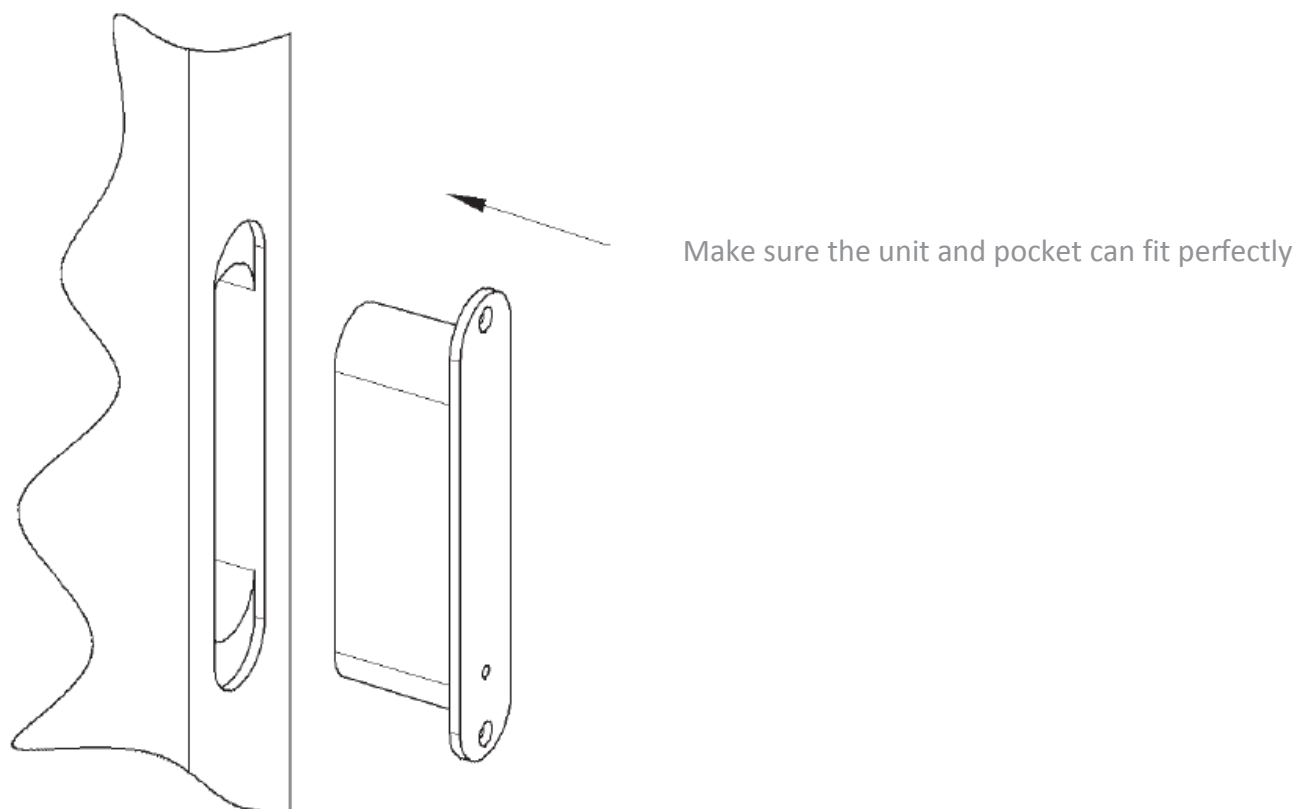
- c. Using wood chisel to even the wood on the edge



- d. Drill a wiring channel for connection to the device to be powered

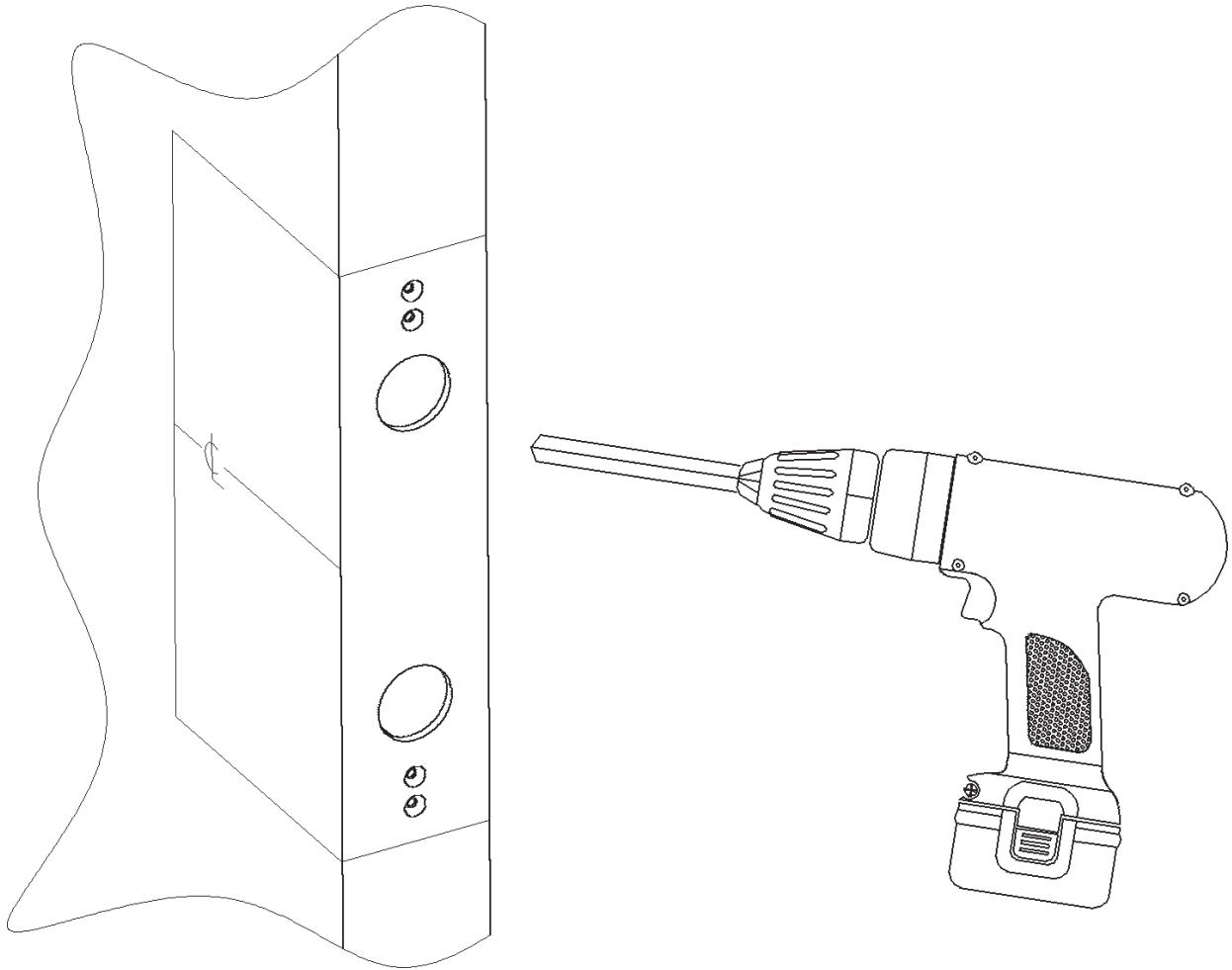


- e. Put the PowerJack inside the pocket to see if it fits the pocket

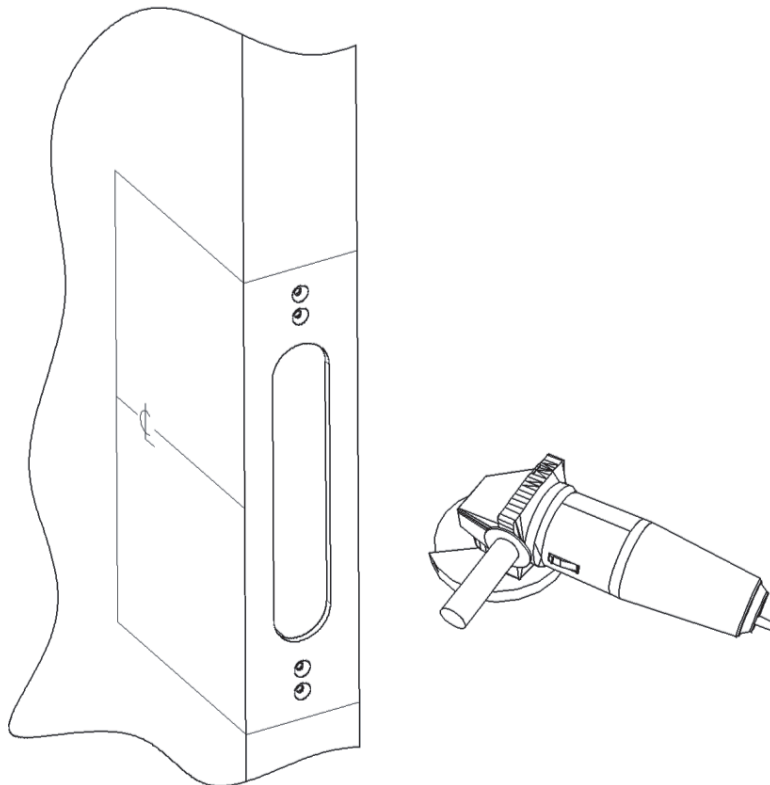


**Step4** Installation in metal door or frame

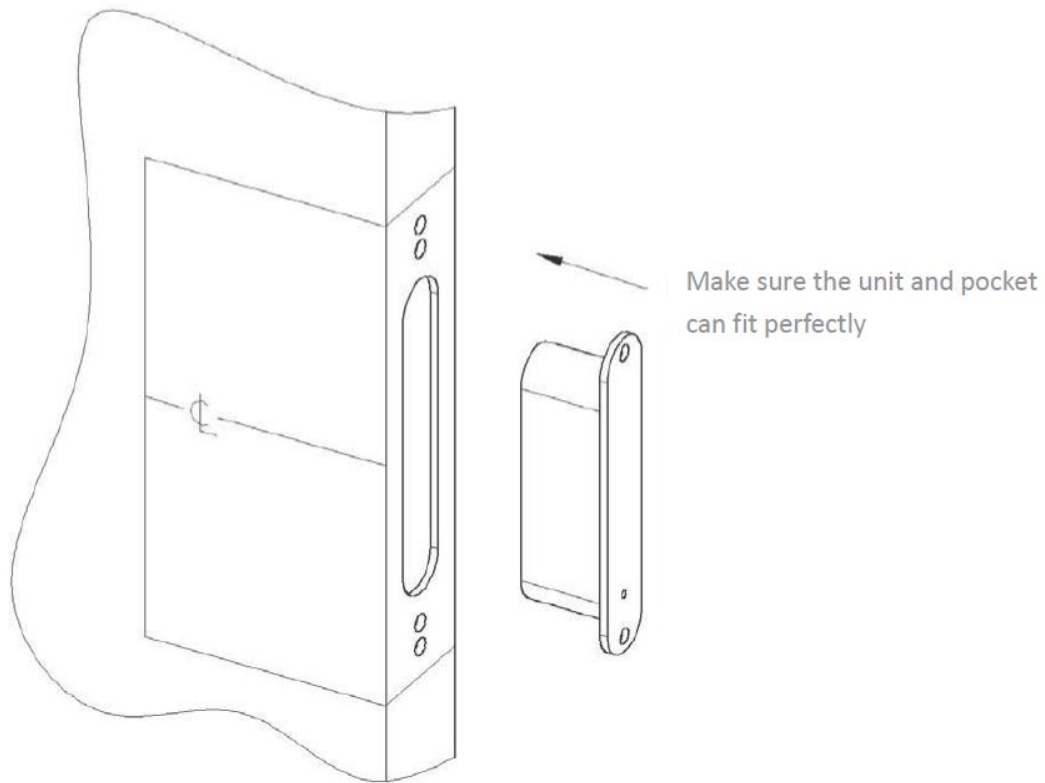
- a. Drill M3 countersunk screws hole according to template



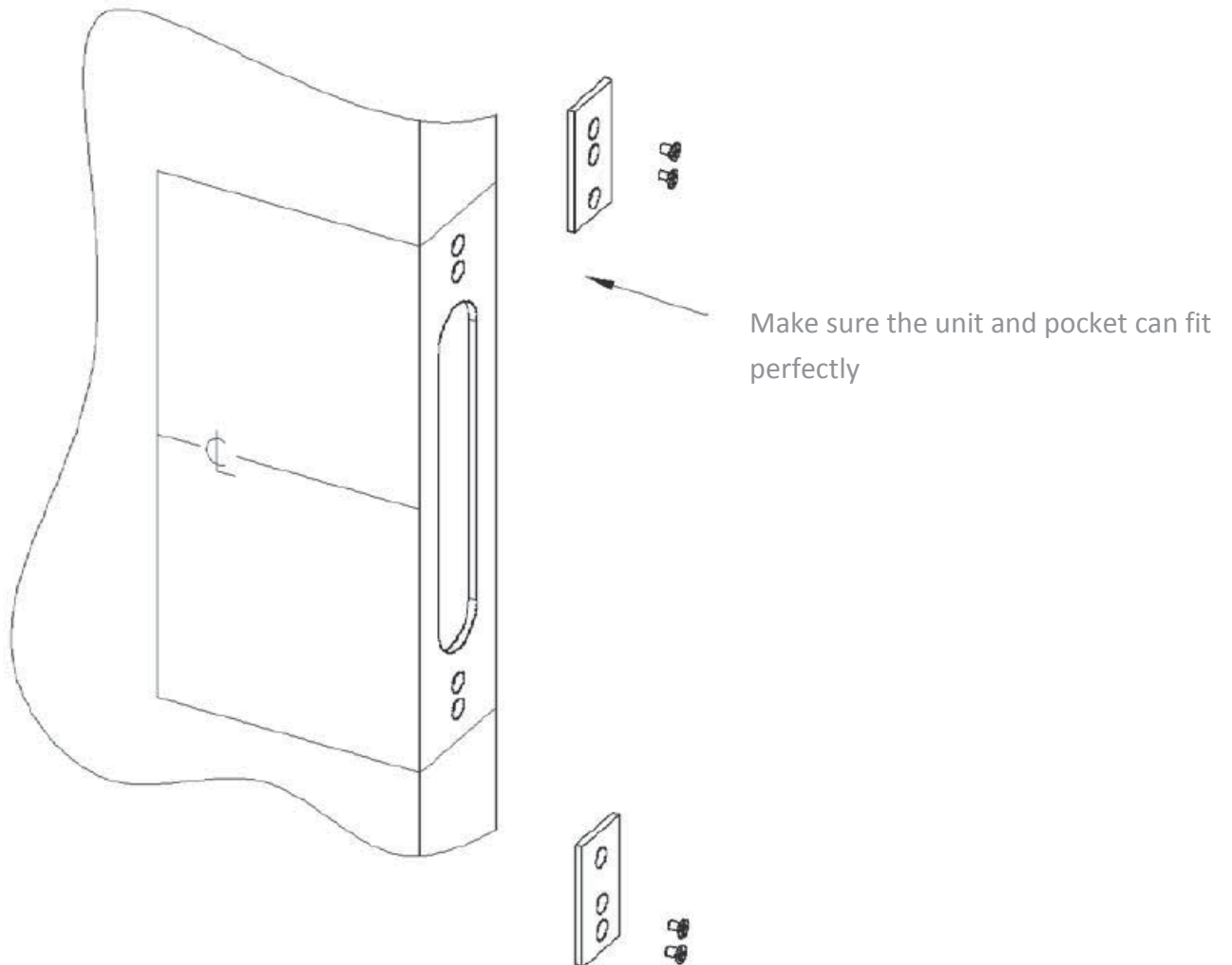
- b. Cut the marked pocket with metal rotary grinding tool



- c. Put the PowerJack inside the pocket to see if it fits the space

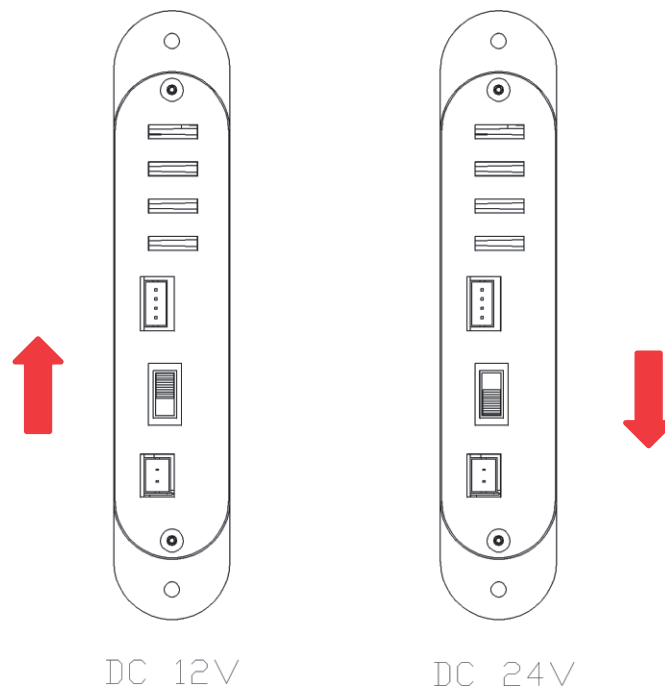


- d. Fix the M3 countersunk screws by metal gasket



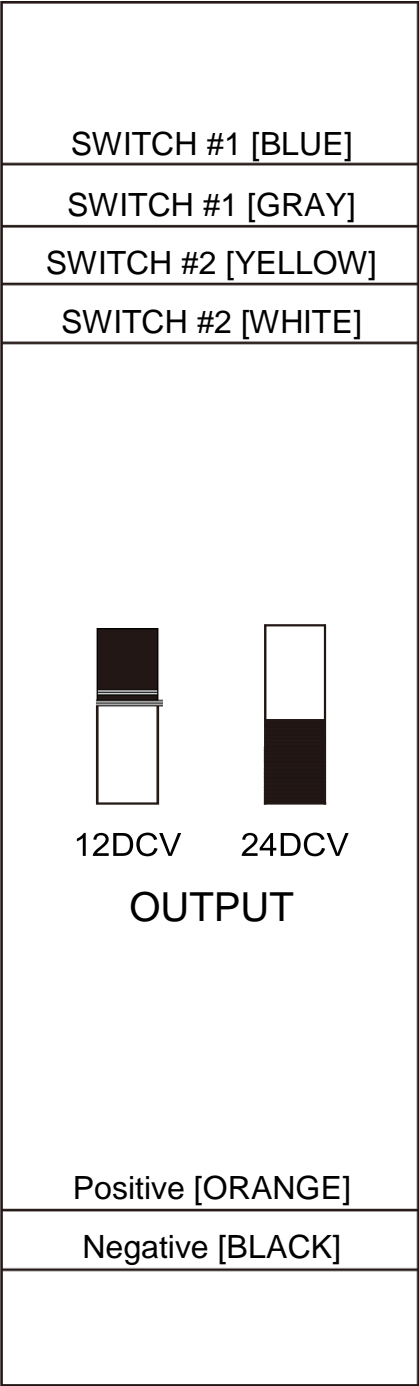
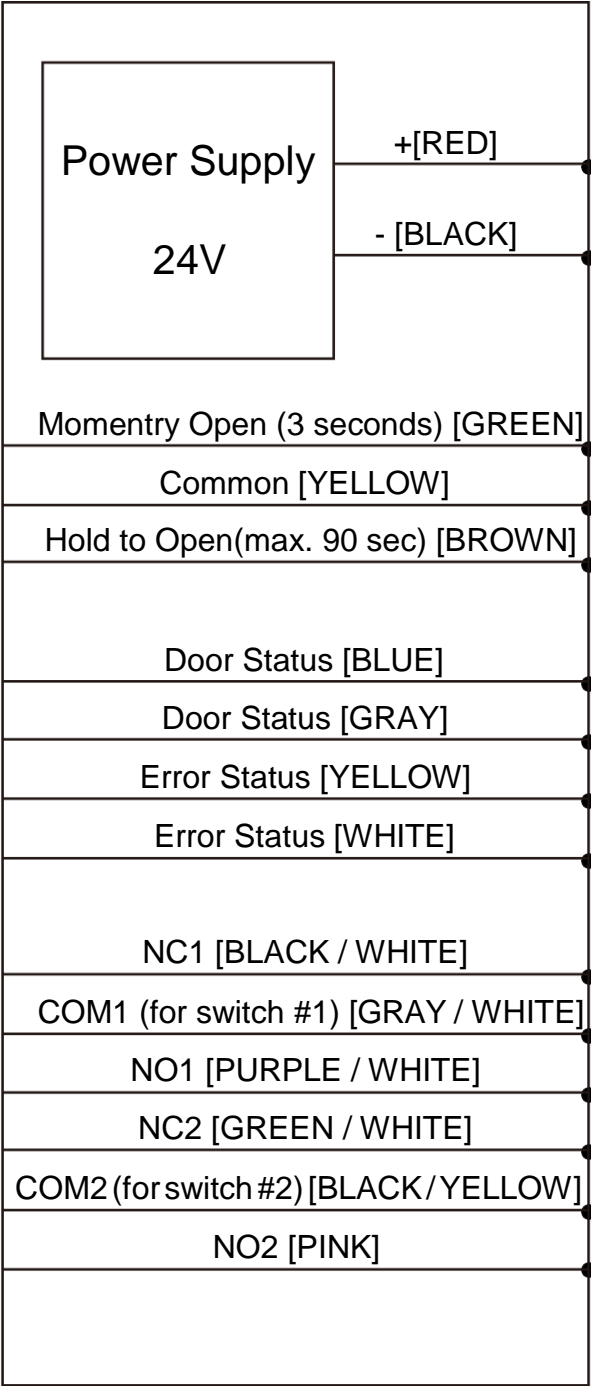
**Step5. Voltage Selection and wiring**

- a. Select output voltage of 12V or 24V by adjusting indicated switch  
(Voltage adjustment only required to adjust door side)



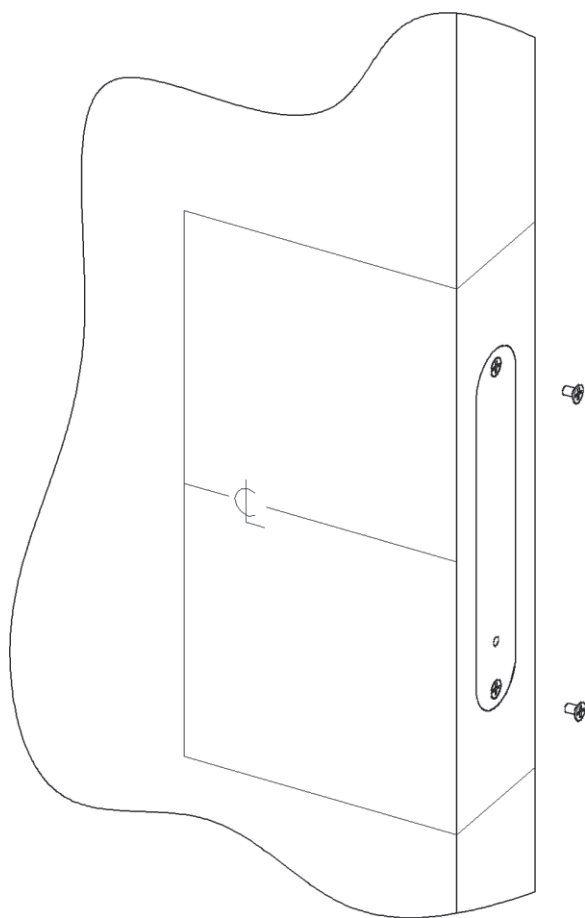
- b. Supply output 24 VDC to frame unit. Connect red wire to positive(+) and black wire to negative(-)
- c. Connect door side unit with the electronic device via wiring channel, connect orange wire to positive(+) and black wire to negative(-).

d. Sensor Wiring Diagram



## Step6 Mount PowerJack

- Wood: use wood self-tapping screws
- Metal: use M3 countersunk screws



### PowerJack NG status chart

TX status	Bi-LED(Green)	Bi-LED(Red)	Remark
Standby	On	Flash frequency 0.4 sec	Error Status DO open
Power supply to RX	Off	On	
Error Status Current over rating	Off	Flash frequency 0.2 sec	Stop supply power and Error status DO short circuit. Auto detect after 10sec, back to standby status if current monitor back to normal.
Error Status Tempature over heating	Off	Flash frequency 0.5 sec	Stop supply power and Error status DO short circuit. Keep monitor device tempature, back to standby status if tempature back to normal.

\*Door status DO at TX side: When TX derect RX, door status will short circuit / back to open if no RX detected after 2sec.

RX status	LED(Red)	Remark
Standby	Flash frequency 0.4 sec	
Power supply from TX	On	

\*RX detect current over rating or tempature over heating, power supply will be shut down.



### **FCC WARNING STATEMENT**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **IC WARNING STATEMENT**

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-247. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions (antennas are greater than 20cm from a person's body).



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