

# BlueSwitch PBT-1000BT Push Button Instructions



The BlueSwitch PBT-1000BT is ideal for request-to-exit applications to release electromagnetic locks or electric strikes in conjunction with Bluetooth access control systems. Designed with aesthetic appearance for a variety of applications. It operates with 12 to 24 VDC and is enclosed on robust plastic housing.

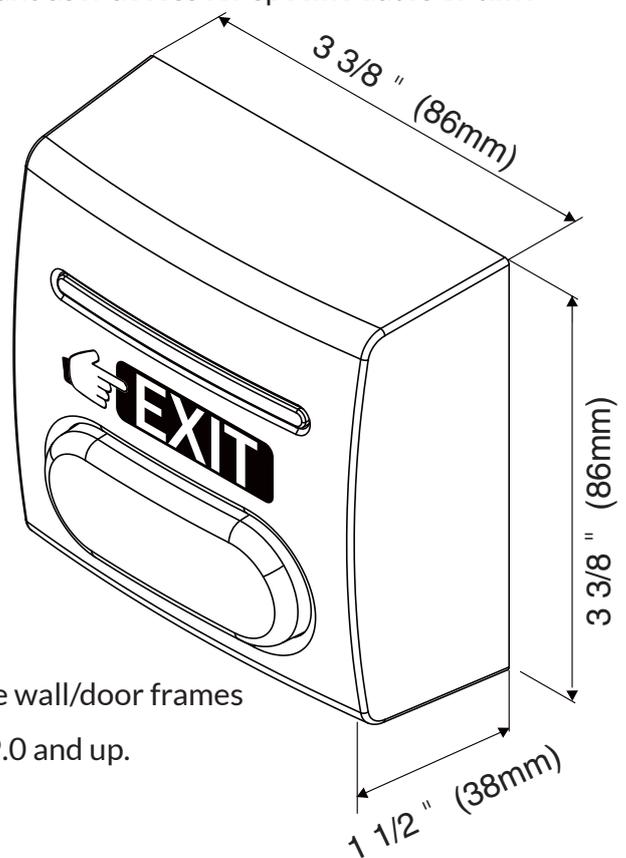
Download BlueSwitch app to open your doors with a simple touch or remotely with Auto unlock function enabled. Manage with your Smartphone by adding and removing access rights or check entry audits, all your management needs in the palm of your hand!

## Features:

- Programmed and controlled by Bluetooth smartphones
- 1 Administrator and 1000 Users
- User Management: Add / Delete/ View user data, Grant user access for specific dates or time periods, and change user passcode
- LED & Audible indicators

## Specifications:

- Operating Voltage: 12 to 24 VDC
- Bluetooth Module: BLE 4.2 Bluetooth Low Energy
- Current Draw:  
Standby current:  
30~50 mA@12 VDC, 0~10 mA@24 VDC  
Working current:  
90 mA~1A@12 VDC, 70~80 mA@24 VDC
- Relay Contacts: NO/COM/NC
- Bluetooth Operating Distance:  
Up to 50 meters (164 ft) without blocking or concrete wall/door frames
- Smartphone Compatibility: Android 5.0 and up, iOS 9.0 and up.
- Working Temperature:  
-20 °C ~ +70 °C
- Dimension: 86mm X 86mm X 38mm (3 3/8" X 3 3/8" X 1 1/2")
- Finish: Robust Plastic



## Pre-Installation

### Check Screw Pack:

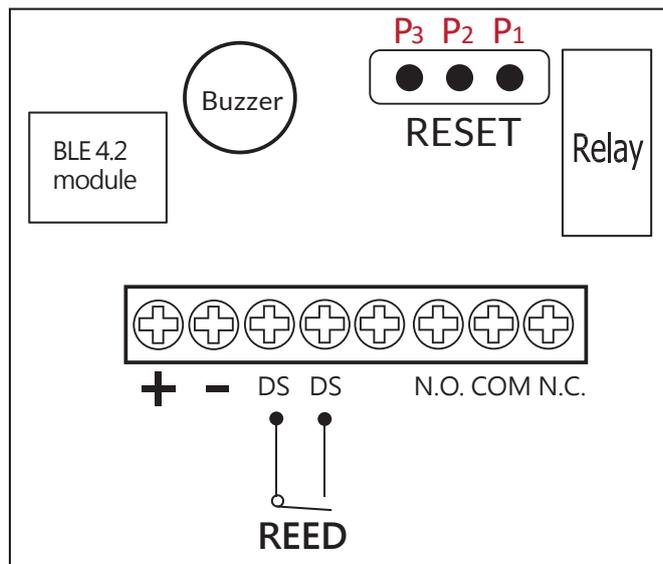


## LED & Audible Indicators

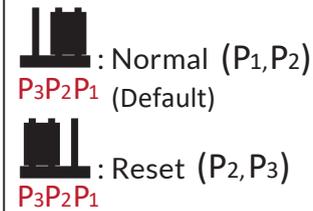
LED	Status
Solid Red	Power on, Standby mode, Invalid access. Door always locked.
Solid Green	Unlocked, Door always unlocked.
Red Flashing	Bluetooth is connecting.

Audible Beeps	Status
1 Long beep	Valid access, Reset is completed.
1 Short beep	Device Name is changed.
2 Short beeps	Login completed.
3 Short beeps	Login failure.
Constant beeping	Door sensor is on.

## PBT-1000BT Wiring Applications and Reset Procedures



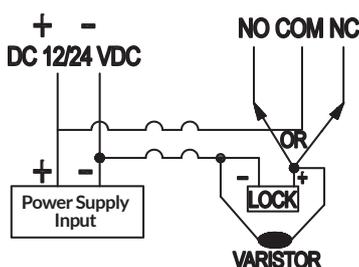
### Jumper Pin Setting :



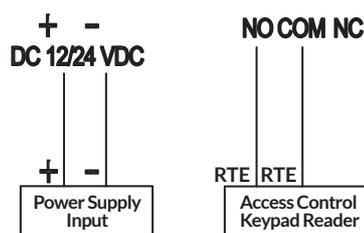
### Reset Procedures

1. Power off PBT-1000BT BlueSwitch.
2. Move the Pin Jumper to P2 and P3, then power on.
3. Hear a long beep to complete resetting procedures.
4. Move the Pin Jumper back to P1 and P2 to Normal setting.
5. Login as Admin and check all users, audit trail events are all cleared and everything is reset to factory default setting, except device name.

### Application 1

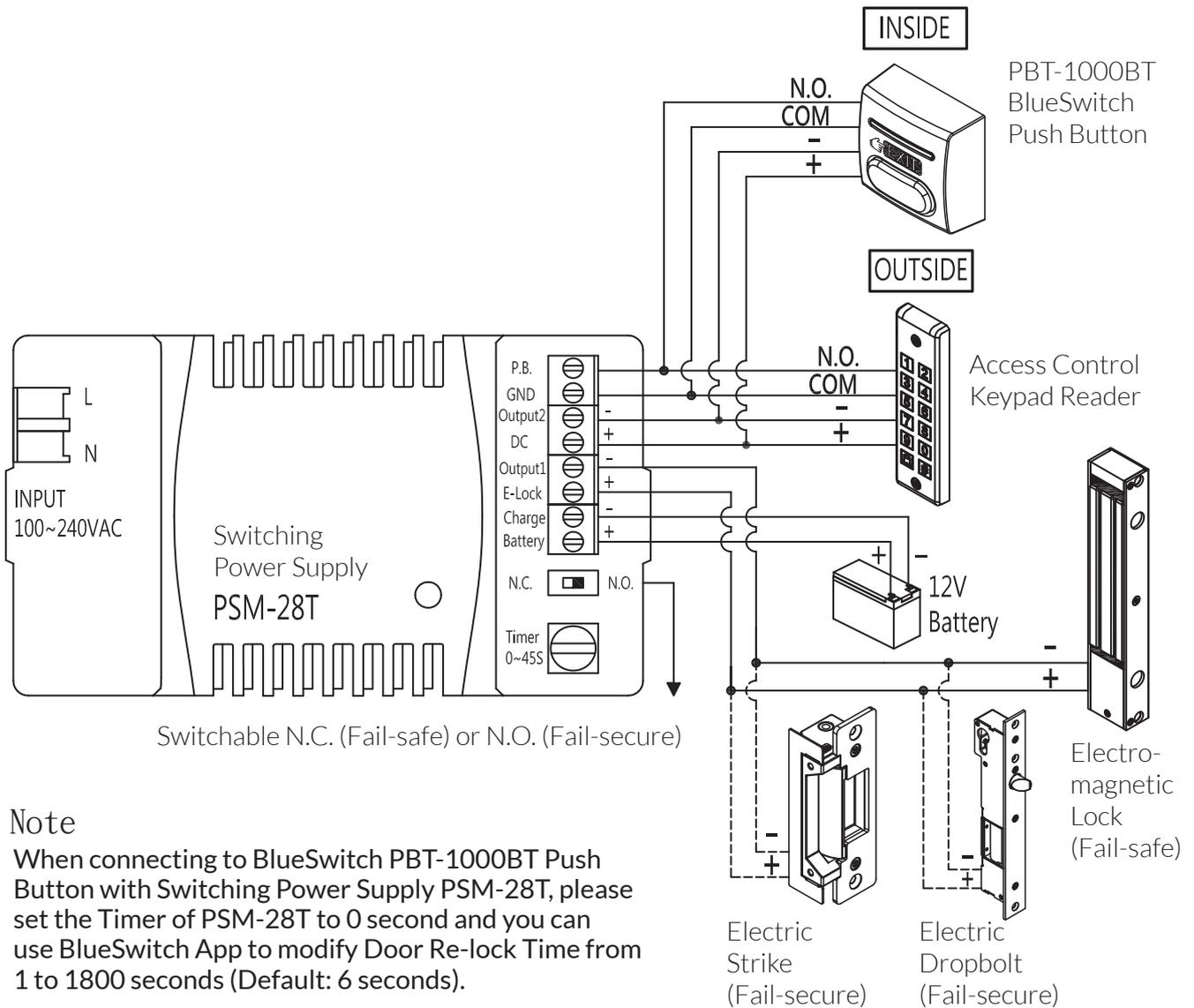


### Application 2

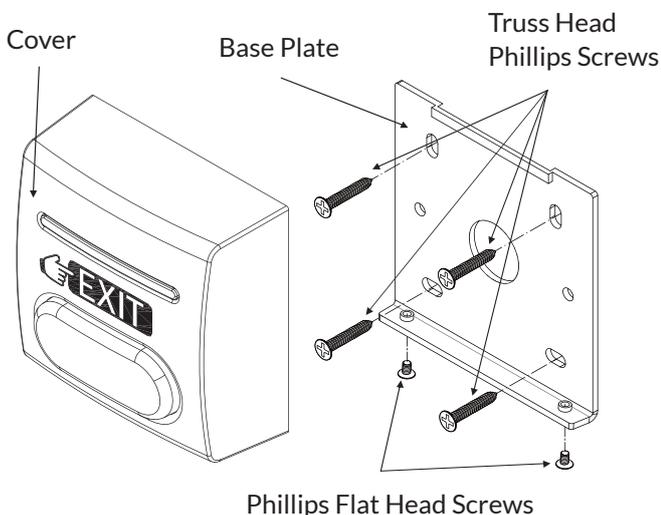


# Access Control Wiring Application

(See page 7 for more details of BlueSwitch PBT-1000BT Wiring Diagram)



## PBT-1000BT Installation



1. Install the base plate using 4 truss head phillips screws on the wall. Be sure to draw the wiring through the large center hole in base plate, and keep level.
2. Put the cover on and fasten 2 phillips flat head screws to finish installation.

# App Guide

## 1. Download BlueSwitch App to Open Your Doors with Your Smartphone



Download BlueSwitch App from Google or Apple App Store depending on what kind of smartphone you use. Smartphone compatibility : Android 5.0 and up, iOS 9.0 and up.

## 2. App Main Page Introduction

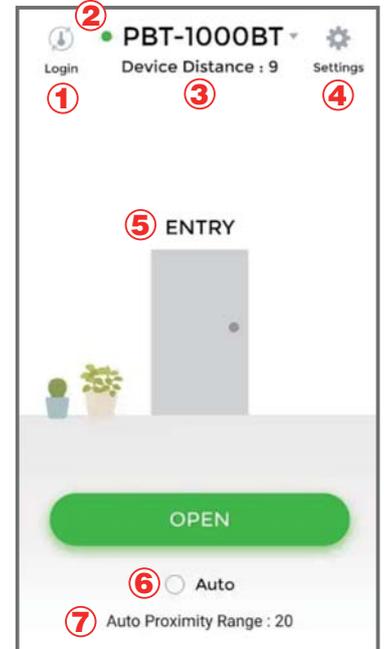
### ① Login

Administrator : Enter Admin ID and Passcode to login.  
Admin ID : ADMIN  
Default Admin Passcode : 12345 (Passcode : 4~8 digits)

User : Enter User ID and User Passcode to login.  
User ID and User Passcode are given by the Administrator.

### [Note]

- 1.) Administrator ID "ADMIN" can not be changed. Please change Admin's default passcode "12345" right after you login as the Admin. Go to setting page, press Admin Passcode to Edit Admin Passcode.
- 2.) Login Success / Login Failure indications will be shown as following :  
Login Success :  
You Have Successfully Logged In. You May Now Unlock A Door.  
Login Failure :  
Login Failed. Please Verify Your Login Information Or Contact Your Administrator.



### ② Device name

Tap and Choose which device you want to unlock by pulling down the Device name listing.

### ③ Device distance

The distance between you and the Bluetooth BlueSwitch Push Button. The distance range is between 0 to 20 upon Bluetooth signal strength and different circumstances.

### ④ Settings

Tap "Settings" to view or change setting functions.

### ⑤ ENTRY

Press  ton or the door icon  to unlock the door.

### ⑥ Auto

Tap "Auto" to enable Auto unlock function to access.

Make sure to disable "Auto" before pressing  if you want to enter Settings page.

### ⑦ Auto Proximity Range

Adjust Auto Proximity Range in Settings page. The range is between 0 to maximum 20 and it may have different results under different circumstances upon Bluetooth signal strength.

## 3. Administrator "Settings" Page Introduction

Tap "Settings" to view or change setting functions.

- ① **Users** : (See Figure 1 and 2 below)
  - a. Add / Delete / Edit user information.
  - b. ID (Up to 16 characters)
  - c. Passcode (4~8 digits)

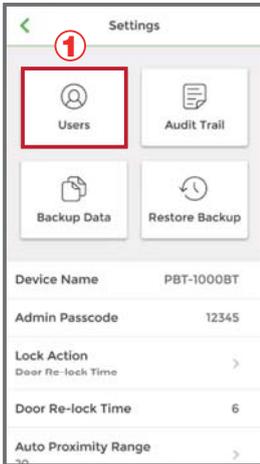


Figure 1

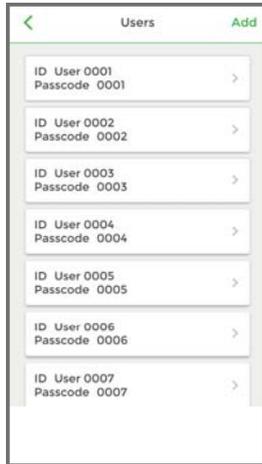


Figure 2

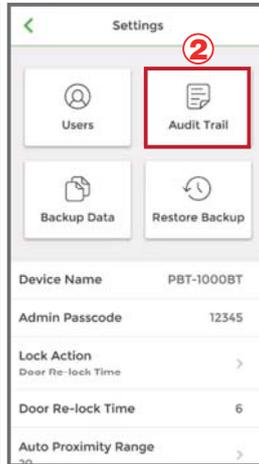


Figure 3

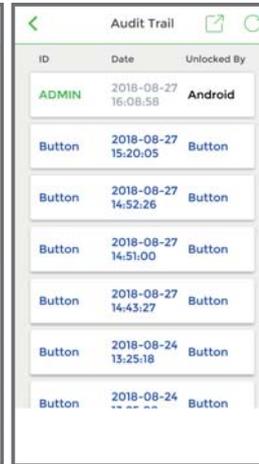


Figure 4

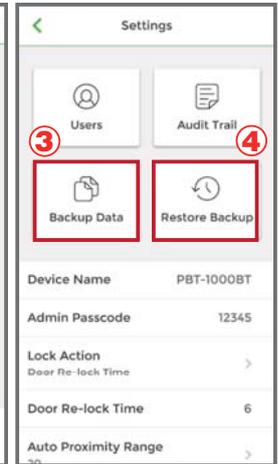


Figure 5

- ① **Audit Trail** : (See Figure 3 and 4)
  - a. Audit Trail is tracking last 1000 event logs.
  - b. Enter a user ID to search events for a user.
  - c. Tap  to export all events to excel file.
  - d. Tap  to refresh all events.

- ② **Backup Data** : (See Figure 5)

Backup Data is to backup Users, Admin Passcode, Lock Action, and Door Re-lock Time to Administrator's phone and can be restored except Device Name, Auto Proximity Range, and Audit Trail logs.

Step 1 : Press "Backup Data", the App will show :

Step 2 : Press Confirm, the App will show :

- ③ **Restore Backup** : (See Figure 5)

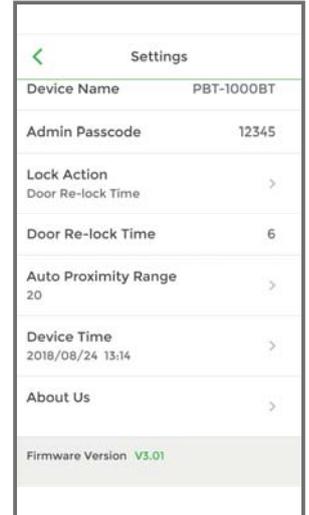
Restore the last backup data by Admin's phone to another BlueSwitch Push Button.

Step 1 : Press "Restore Backup", the App will show :

Step 2 : Press Confirm, the App will show :

## Administrator ” Settings” Page Introduction Continued : (See the Figure)

- Device Name : Edit Device Name (Up to 16 characters)
- Admin Passcode : Edit Admin Passcode (4~8 digits)
- Lock Action : (3 options)  
Choose Door Re-lock Time, Door Always Unlocked, and Door Always Locked.
- Door Re-lock Time : 6 seconds by default. You can modify Door Re-lock Time from 1 to 1800 seconds.
- Auto Proximity Range : Adjust Auto Proximity Range here. The range is between 0 to maximum 20 and it may have different results under different circumstances.
- Device Time : Make sure the Device Time is precisely synced with your current time zone to have correct and precise access data and information.
- About us : View Device Model, App version, Website and E-Mail information.
- Firmware version : See Firmware version of your Bluetooth BlueSwitch Push Button.



## 4. User's ” Settings” Page Introduction

Tap “Settings” to view or change setting functions. (See Figure 6 below)

- Device Name : User can only view the Device Name. (See Figure 7 below)
- Auto Proximity Range : User can adjust Auto proximity range between 0 to maximum 20 to access. May have different results under different circumstances. (See Figure 8 below)
- About Us : View Device Model, App version, Website and E-mail information. (See Figure 9 below)

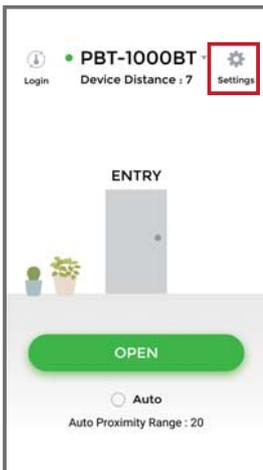


Figure 6

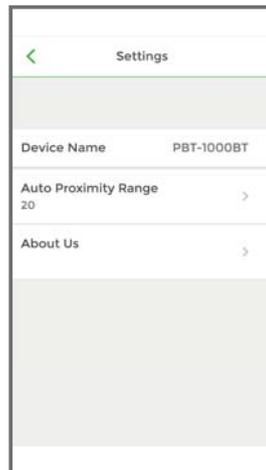


Figure 7

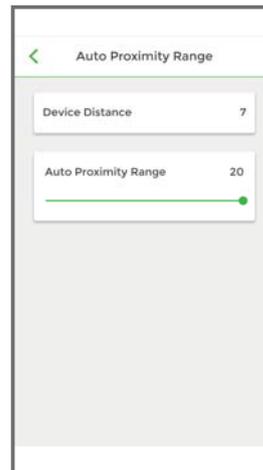


Figure 8



Figure 9

# Wiring Diagram

The PBT-1000BT includes one pair of NO and NC output contacts, which can directly connect to a locking device or connect in parallel or series with access control systems.

## Note:

1. Make sure that the power input and relay rating output (5A 250VAC/5A 30VDC) are correct.
2. Make sure that the “+” and “-” wires are connected correctly.
3. The door strike or relay must have a varistor or a diode across the door strike terminals to suppress the back EMF of the strike. Failure to do so will damage the relay contacts and electronic components, or even burn the controller.

