



GBF USER MANUAL

FOR MULTI UNITS APARTMENT BUILDING INTERCOM SYSTEM



WELCOME

Congratulations and thank you for purchasing the GBF 4 wire smart intercom system for 2 to 8 unit apartment buildings. Our factory engineers were the first to enable monitoring multiple security cameras through mobile handheld devices, and now have used that expertise to bring you a full-featured Multi-unit Doorbell system that allows you to monitor and interact with visitors at your door, from anywhere on your mobile device using a Wi-Fi or data connection. Please read these instructions carefully and follow all of the required steps during setup to ensure your enjoyment of a fully functional Doorbell system in minutes.

For customer support or any inquiries, please visit our website at www.gbfelectronics.com or contact us at info@gbfelectronics.com.

INSIDE THE BOX

Quantity	
(1)	GBF PL591BC4(x)* outdoor station
(1)	Metal Back Box
(1)	12VDC Outdoor Station Power Adapter
(1)	Relay/Push-to-Exit Wiring Harness
(x)	SkyBox with power adapter*
(4)	Screws with Anchors
(2)	Hex-Head Screws
(1)	Allen Key
(1)	User Manual

* (x) denotes number of call buttons on the outdoor station. All examples and diagrams in these instructions are for a 4-Button outdoor station (PL591BC4(4))



SYSTEM OVERVIEW

The GBF 4-Wire Intercom system utilizes a minimum of two connected devices; an Outdoor Station containing an intercom, camera, and call button, and a SkyBox, which is the link between the Outdoor Station and the Internet. The Skybox also is individually addressable and will only ring to the mobile device(s) registered to it. The SkyBox is wired to the Outdoor Station with a 4-conductor wire, and connected to a internet-connected router either through WiFi or via a hardwired ethernet cable. The Outdoor station comes in a number of designated unit configurations; 2, 3, 4, or 8 Call buttons. The system will have a corresponding number of SkyBoxes to match the number of Call buttons on the Outdoor Station. The Skyboxes need to be connected to the internet to communicate with your mobile device, and can all share the same internet connection if desired. When a Call button is pressed on the Outdoor Station, the connected SkyBox will alert all mobile devices registered to that single SkyBox. From anywhere their mobile device is connected to the internet (3G/4G or WiFi), the user will be able to answer the call, communicate with the visitor, observe them on video, and also trigger a door lock mechanism to allow entry.

1. Installation

* For your convenience, perform the initial configuration of the doorbell connecting it to a power supply nearby the user's home internet router. From this way, it is possible to check the full operational function before place the parts of the product.

- Placing the outdoor station: Place the outdoor station beside your gate, considering field of vision, shadows and background light (for the camera). You should also consider proximity of AC power and the ability to wire for additional accessories. The recommended mount height is 60" (150cm) above the surface where the caller is standing on. At the chosen place must have at least a 1 ¼" hole on the wall to allow the wired connection.

- Placing the Skybox: Place the Skybox in a local with good wi-fi connection with the user's router or in a local with access of a ethernet cable from the user's router. Remember about the necessary power supply.

- Connecting the system: Using the four wires connectors (come jointly the kit), connect the outdoor station with each corresponding skybox. Notice that there is a 4-pin connector for each unit inside the outdoor station (CN1, CN2, CN3, CN4, etc.) and two behind skybox, the first outdoor station must be connected at the CN1 port of the corresponding skybox, and the same step must be used for the subsequent units. Notice that the connectors already come prepared to be extended, only make sure to match the wires post extension by the color code.

- Connecting an electric lock: The outdoor station possesses a SPDT relay that allows the use of an electric lock with a push-button to release the gate. Use the red and black wires from the 5-pins connector (CN5 behind the outdoor station) to connect a push-bottom. Use the green and blue wires for normal opened contact, or blue and brown for the normal closed contact, to connect the electric lock.

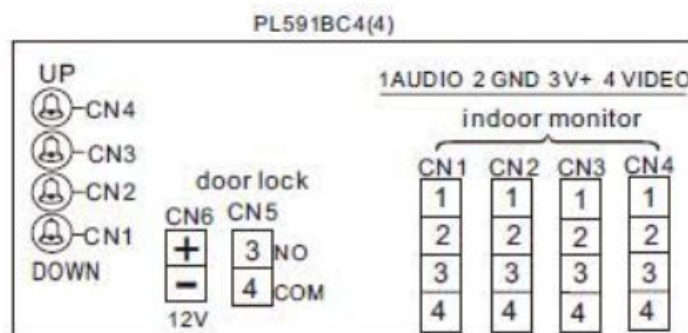
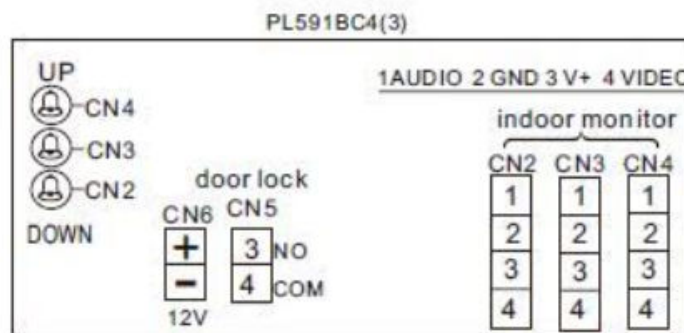
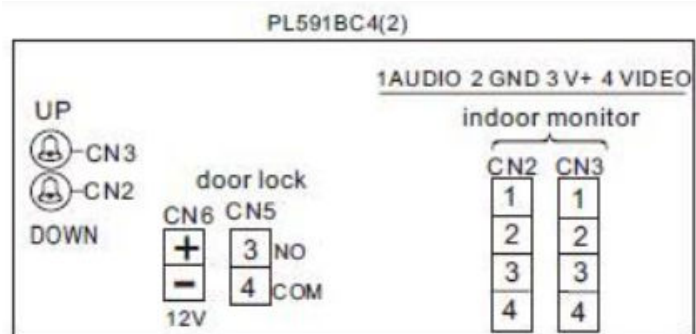
- Powering the system: Connect the power supplies to the 2-pins connectors on each system's part (outdoor station and skybox).

- **Assembling the outdoor station:** Gently place the excess wire inside the hole behind the outdoor station. Assemble the outdoor station inside the rain cover mount, placing the top first. Then fix the two screws on the bottom of the rain cover mount using the Allen key.

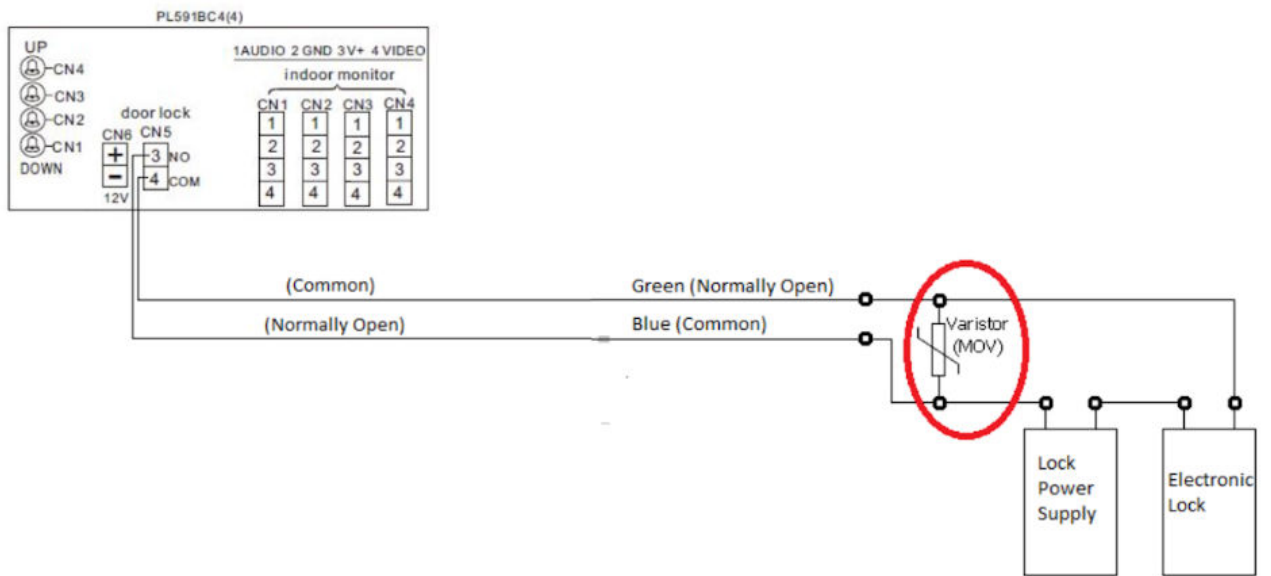
Notes:

- The maximum distance between the outdoor station and the farthest monitor must be 70m.

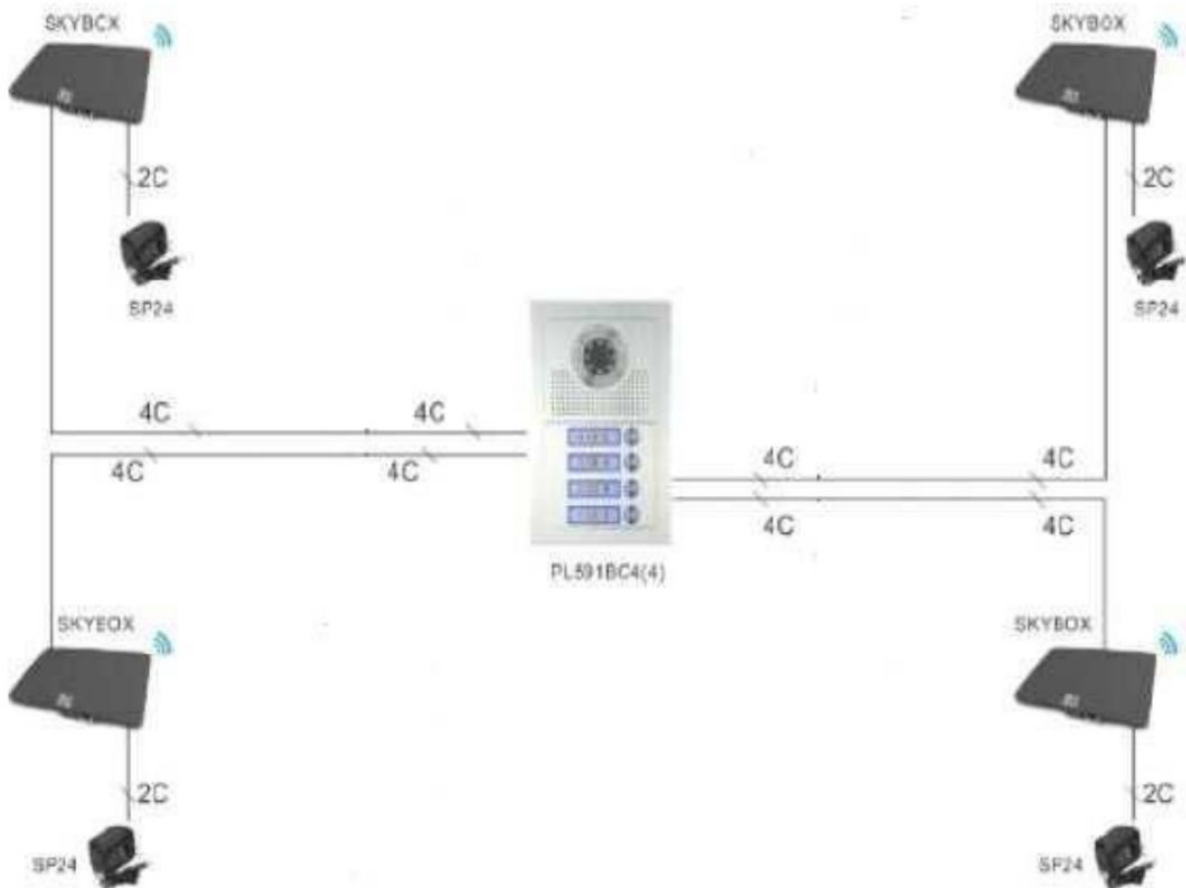
- **To each unit work separately, seek the connection label on the skybox bottom and take out the jumper labeled as J3 behind the skybox. Do it for all the skybox in the system.**



Wiring Diagram for Normally Open Circuit (PL591BC4(1)) (e.g. Electric Door Strike)



General System Wiring Diagram



2. Skybox configuration

Downloading the App

To configure and receive calls from the Outdoor Station you need to download "Doordeer" APP. Available on Google Play Store (Android) and Apple Play Store (iOS). Please see the skybox manual in skybox package for how to configure your skyboxes with your smart phone. Or watch the video instruction for GBF 3rd Gen WiFi Skybox MR263C4 at: <https://www.youtube.com/watch?v=sdeTvtfC0Fo>.

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