Installation Quick Start Guide for iNX PBS

See "iNX Push Button Station User Manual" Rev. A or newer for complete Installation and Operation instructions. Installation is covered in Section 3 of the User Manual.

Polara offers a free app called the Polara Field Service App. It is available for iOS and Android and can be downloaded from the appropriate store. The app must be used to change password, and can be used to adjust settings, upload custom messages and update firmware. Download the app before beginning any installation steps.

All wiring must be completed before applying power to the iNX PBS.

Customer/installer is responsible for providing properly rated 6-Conductor Cable with #18 AWG conductors.
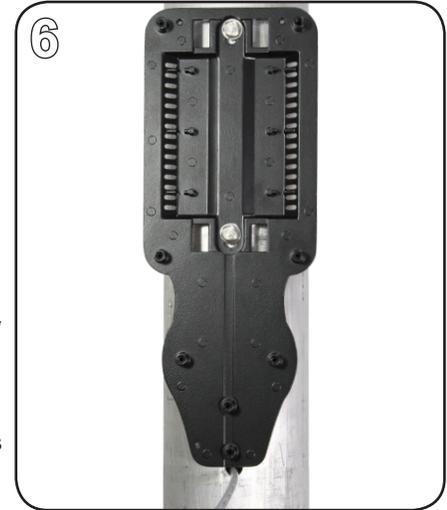
The iNX PBS must be mounted only in the upright orientation with the connection terminals at the bottom, any other mounting orientation will void the warranty.

Installation Instructions

1. The iNX is a modular device consisting of a backplate, electronics module, speaker module, arrow button diaphragm, button cover, sign, and sign backplate (for larger signs). The iNX is shipped partially assembled to secure it during transport. To prepare for mounting, remove 3 screws from the lower cover. Remove all screws securing the sign and sign backplate if present. Remove the EARTH GND (ground) screw located below the terminal blocks at the bottom of the unit. Store this screw in a safe place; it ensures the unit is grounded to the pole and must be reinstalled (if lost, it can be replaced with a 1/4" long stainless steel 8-32 machine screw). Verify the arrow on the PBS module is oriented toward the associated crosswalk. If necessary, the button diaphragm assembly may be taken off and rotated as needed. Secure the button diaphragm in the correct orientation by tightening the two retaining screws with a Phillips-head screwdriver. **Please use caution as the metal button diaphragm is sharp.** Remove the electronics module and speaker module together from the backplate.

2. **Retrofitting Existing Buttons.** Remove existing buttons. Typical push button frames have the wire exit hole in the pole directly behind the center of the button (approx. 3.5" below lower mounting hole). Because our PBS requires the wires to reach the bottom of the unit, verify 8" of wire extends beyond wire exit hole in pole. If enough wire is not available, evaluate whether a new, lower wire exit hole that would line up with the terminal block access point in the bottom of the PBS, would provide adequate wire length. If yes, drill and reroute wires. The optimal position of this hole is approx. 6.5" below the lower mounting hole. If not, determine a way to achieve more wire length. If necessary, drill and tap two ¼-20 mounting holes, and drill 1/2" or larger wire exit hole per template provided.

3. **New Installations.** Position backplate on pole at correct height and orientation so arrow will point to ending of crosswalk on the opposite side of the street. Mark mounting bolt locations and wire exit hole. MUTCD button max. height is 48". Typical recommended button height is 42", but can be lower. Drill and tap two ¼-20 bolt holes, and drill 1/2" or larger wire exit hole per template provided.

4. Route 6-Conductor Cable from Controller to button location.

5. Position the backplate against the pole and route the wires forward near the bottom end of the backplate. Position the wire such that 3 or 4 inches of wire is available at the bottom of the backplate.

6. Attach the backplate to the pole using the provided ¼-20 bolts with washers.

7. Re-install the electronics/speaker modules. Re-install the sign backplate and sign (ensure sign direction matches arrow), securing the PBS Module in place before wiring. Re-install EARTH GND (ground) connection screw to location under terminal blocks.

8. Connect the six wires from the Controller to the terminals of the terminal block. Note colors to terminal labeling. Recheck tightness of all connections. Re-install the lower cover. Connect six wires to appropriate location on the Controller per labeling/colors on PBS.

9. Once all cabinet wiring is complete and all PBSs are mounted and connected, power up the system. Each PBS will play a double beep, then the Locate Tone, and a message reminder stating "Change Password" will play every 60 seconds. **You must change the password with the app to disable this reminder. Default password is "1234". Password can be 4-17 characters.**

10. The next step is to update the firmware on each PBS if the app prompted this when opened. For each PBS, connect to the PBS and perform a firmware update. See Section 7 of the User Manual. The PBS will reset after the firmware upgrade is completed.

11. Once each PBS is operating/updated, the settings of each PBS can be configured as needed. See Section 6 of the User Manual.

Technical Support Contact

Polara @ 903-366-0300 EXT 4 or 888-340-4872. The latest version of both this and the full User Manual is available in PDF format at www.polara.com.

6 Wire System Termination View

2-Wire inputs for LIGHTS (+/-)*
2-Wire inputs for BUTTON (+/-)*
Power (PWR)
Ground (GND)
*Note: Both LIGHTS and BUTTON accept either polarity.