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## PBCU-EB Installation Instructions

The PBCU External Box (PBCU-EB) is a single card rack box specifically intended for use with the Polara PBCU. It would typically be used in a cabinet where there is no existing card rack space for PED Isolators or Detectors. A PBCU-EB just provides a wiring interface for connecting a PBCU to the BDL3 (or BDLX2) buttons.

For a complete understanding of the PBCU-EB system it is recommended to also refer to the PBCU Installation and Operation manual.

There are four channels of pedestrian inputs labeled A, B, C, and D. These are typically assigned PED Phases 02, 04, 06, and 08. The four channels may be assigned in any manner desired. Make all connections per the PBCU-EB wiring diagram.

Find a suitable location inside the cabinet, preferably on a shelf (a wall mount kit is available). Disconnect the PED FIELD wires inside the cabinet, and install the BDL3 buttons in the field. After the buttons are installed, connect the PED FIELD wires to the PBCU-EB button inputs.

With the PBCU-EB power cord separated, connect the stripped end to the same transient protected 115 VAC source used for the traffic signal controller.

If the PBCU Logic Inputs are used, then make the connections to the +24VDC and LOGIC GROUND. Otherwise these terminals are unused.

Connect the traffic cabinet PED INPUTS to the PBCU-EB PED outputs.

After all connections are made to the PBCU-EB, follow the Installation and Operation instructions for the PBCU to complete the PBCU installation.

To supply power, connect the PBCU-EB power cord to the previously connected portion of the cord.

Test and validate the installed PBCU/PBCU-EB system for proper operation.

