



PBCU: PUSH BUTTON CONTROL UNIT FOR BULLDOG BUTTONS



The Polara Push Button Control Unit (PBCU) is an interface device for Polara Bulldog pedestrian push buttons, designed especially for the BDL3 which can operate in either momentary or latching LED mode. It also powers down all BDL3 buttons when an intersection is in flash so buttons do not provide any indication when pushed. It is designed as a double width plug-in module that supports 4 PED PHASES and up to 4 buttons per phase. It can be used in place of two Type 242 Isolators in a typical Cal-Trans style traffic signal cabinet, or, it can plug into a standard detector input in a NEMA style cabinet. If plug-in slots are not available, it can plug into an optional base station* and operate as a standalone system like its predecessor the LPBCU. It is intended only for use with Polara Bulldog buttons and is compatible with all models of BDLM2** and BDLL2. The PBCU is fully compliant with MUTCD 2009 Section 4E.08 for latching Push Buttons. See Installation and Operation Manual for detailed list of features, functions and specifications.

SPECIFICATIONS:

Mechanical

Height: 4.50 inches

Width: 2.34 inches

Length: 7.00 inches excluding pull handle

Electrical

AC Power Input: 115 volts nominal (89 to 135)

DC Power Input: 24 volts nominal (20 to 28)

AC Walk / Don't Walk Inputs: 80 to 150 volts AC

Logic Inputs: Low (true) less than 8 volts DC; High (false) greater than 12 volts DC

Voltage supplied to field buttons: 18 volts DC regulated

Environmental

Specified operation from -34°C to 74°C

Operation from 0% RH to 95% RH non-condensing

Operation to 10,000 ft. altitude

Hardware Kit

PBCUHK Standard 6 Foot Cables included with each PBCUHK

PBCUHK-15 15 Foot Cables can be ordered instead of 6 Foot Cable at an extra charge.

*Optional base station sold separately as part number PBCU-EB.

**BDLM2-X buttons will beep & flash (until capacitors discharge) if intersection is in flash.