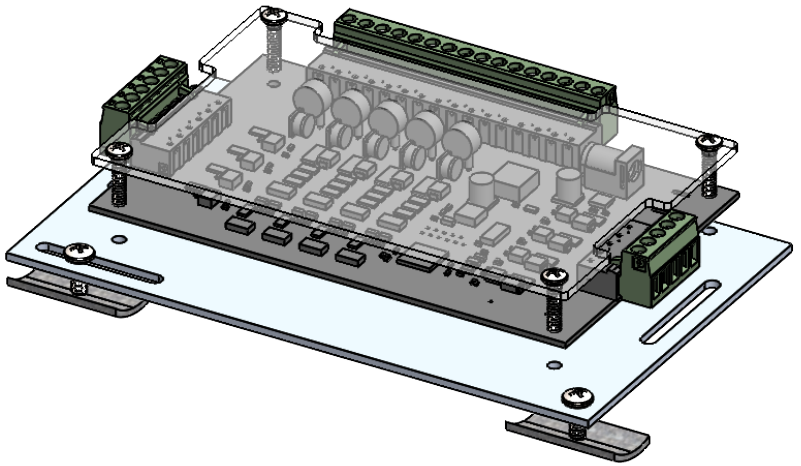
LPBCU2: Latching Push Button Control Unit

The Polara LPBCU2, when used with matching Polara BDL3 pushbuttons, provides a pedestrian pushbutton system with a latching red light. When any button on a phase is pressed, the light on all buttons on that same phase latch on until the associated pedestrian walk light turns on. The buttons are disabled while the walk light is on. At the end of the pedestrian walk cycle, the buttons are re-enabled and the process repeats.

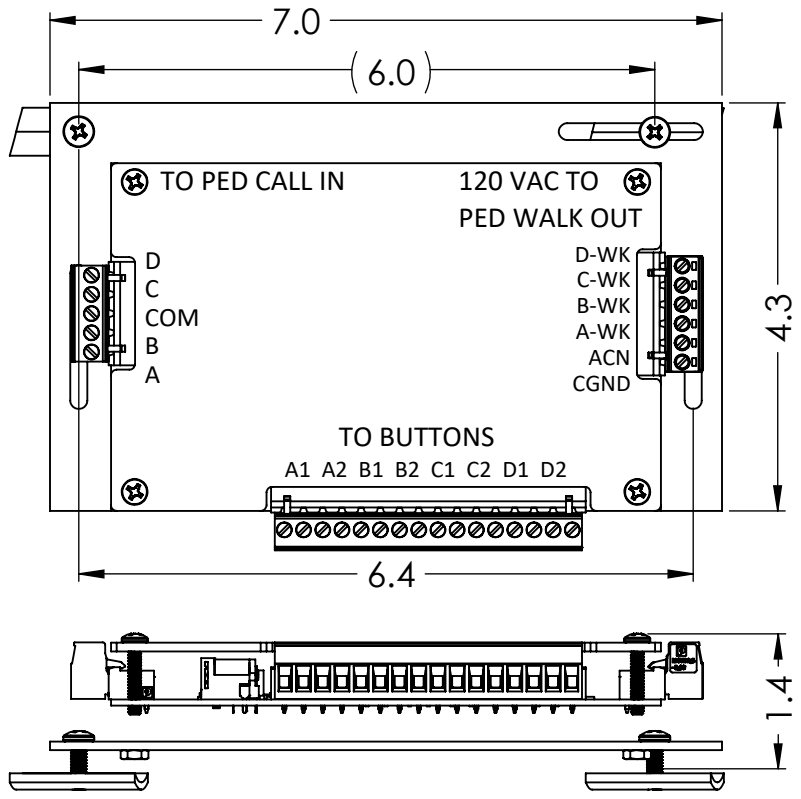


The LPBCU2 installs inside the intersection control cabinet. It can can be mounted onto the cabinet rails in several orientations, using any of the four mounting slots and provided fasteners. It can also be set anywhere within the cabinet.

The LPBCU2 must be connected between the existing PED button field wires and PED inputs to the intersection controller. The LPBCU2 must also connect to the PED Walk Power (120 VAC) from the load switch. The included power adapter's cable must be wired to a source of 120 VAC that loses power during cabinet flash, such as the load switch bus bar. This ensures the BDL3 pushbuttons lose power and will not beep or illuminate when pressed during flash. The installer is responsible for supplying all conductors needed to make connections from the LPBCU2 to the traffic cabinet.

The LPBCU2 supports 4 separate pedestrian phases and each phase can accept up to 5 pushbuttons, which operate on 18 VDC nominal. The system works by monitoring the pushbuttons and the walk cycles. Any button push is detected by the intersection controller, except during a walk period. The duration of the button push is detected and is directly transferred to the relay output. The relay outputs will handle .2A and 60 VDC maximum.

All inputs are optically isolated, eliminating the need for additional PED isolation.



Dimensions are in inches.