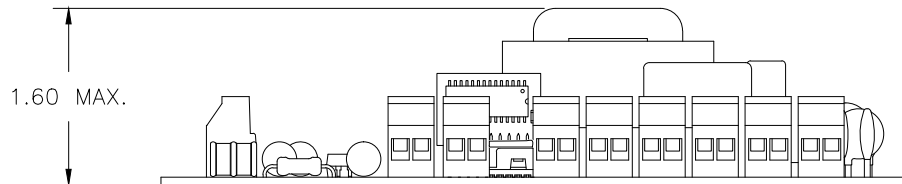
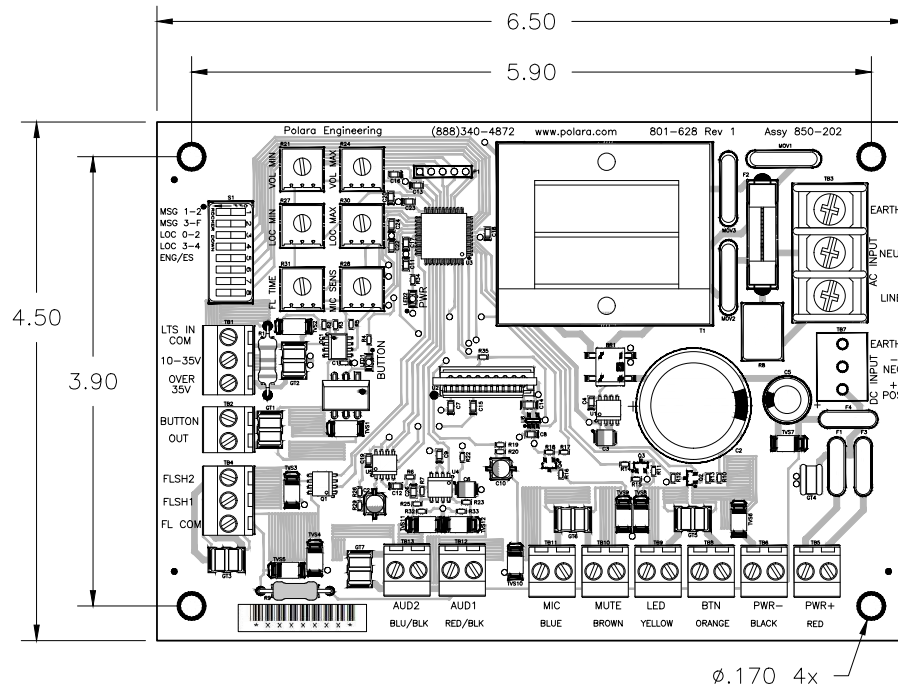


XAVCU2F - Control Unit XAV2E-LED Push Button Stations



The XAVCU2F is a control unit that works in conjunction with Polara's XAV2E-LED Push Button Stations, and provides a system for playing a voice message at a pedestrian crosswalk where flashing yellow lights are installed. The XAVCU2F provides relay control signals for operating the crosswalk lights. The system has several other features as listed below. Note: XAVCU2 model products are not compatible with the previous XAVCU model products.

Operational Features:

- Dip-switch selectable number of message repetitions with options of repeating 1, 2, and 3 times or continuous while the crosswalk lights are flashing.
- Dip-switch selectable rate for the button locating tone. Options are; None, every 2 seconds, every 3 seconds, and every 4 seconds.
- Dip-switch selectable voice message. Options are; English only, or both English and Spanish. A custom message is also available by special order.
- Capability for setting the minimum and the maximum limits for the sound volume for both voice message and locating tone.
- Automatic volume adjustment to compensate for changes in ambient noise levels. The output volume stays within preset limits. The system also provides a gain adjustment for the built-in ambient noise sensing microphone.
- The XAVCU2F comes with two flash control signal outputs which are used to drive external relays for controlling flashing lights. An onboard adjustment is available to set the flash time over a range of 2-65 seconds.

An 8-wire cable is required (furnished by installer) to connect between a remotely located XAVCU2F and the push button stations. Polara recommends Belden 27601A. This cable is suitable for direct burial and color matches the labeling on the XAVCU2F. A maximum of two push button stations can be connected to an XAVCU2F.

XAVCU2F - Detailed Specification

Function

Controls up to two Polara XAV2E-LED Push Button Stations

Options Available

XAVCU2F (for AC voltage operation)
XAVCU2F-DC (for DC voltage operation)

Electrical Properties

Power	
AC Power In	105-135 VAC, 60 Hz, 0.1A
Idle Current Draw (15VDC input power)	~2mA +1.2mA per XAV2E-LED
Peak Current Draw (15VDC input power)	~500mA with voice message at maximum (One XAV2)
Max # of XAV2E-LEDs	Two (-DC: Limited only by current available)
Inputs	
BTN	Normally high, pulled up to PWR+ (pulled to GND when the PB is pressed)
MIC (Microphone)	0-1.5 Volts (ambient noise feedback)
LTS IN - L	10-35 Volts AC/DC (External Light - Flashing)
LTS - H	35-130 Volts (External Light Control - Flashing)
LTS - COM	Common GND reference
Outputs	
PWR+	10-24 Volts DC referenced to PWR-
PWR-	DC Ground
LED	Open collector to drive LEDs in PCB (typical 22mA sink from XAV2E-LED)
MUTE	Open collector active low < 0.3 Volts (Turns off speakers)
AUD1	Differential outputs for PBS audio amplifier
AUD2	Differential outputs for PBS audio amplifier
FLASH1/FLASH2	Alternating relay control signals - active low. Load current - .5 Amp. max.
FLASH COM	10-24 Volts - Provides power for relays - connects to board positive power supply through 100 ohms.
BUTTON OUT (2)	Optically isolated contact closure for button press. Max Operating Voltage: 36V DC or peak AC

Features

Dipswitch Selectable Options	
Message Repetition Rate	1 time, 2 times, 3 times, or continuous while flashing
Button Locating Tone Rate	None, 2 seconds, 3 seconds, and 4 seconds
Voice Message Language	English, English & Spanish, or optional custom
Standard English Message	"Yellow lights are flashing"
Standard Spanish Message	"Las Luces amarillas estan relampaqueando"
Adjustments and Settings	
Volume Adjustment	Adjusts automatically in response to ambient noise. Volume stays within preset min and max settings.
Noise Sensitivity	Allows for microphone sensitivity adjustment.

Mechanical Properties

Physical	
Product Type	PC Board
Installation	Mounting holes: 3.90" x 5.90"
Dimensions	
Width	4.50"
Length	6.50"
Maximum Component Height	1.60"
Environmental	
Storage Temperature	-45°C to +85° (NEMA)
Operating Temperature	-34°C to +74°C (NEMA)
Humidity	< 95% RH, non-condensing (NEMA)

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