



XAVCU2 - Detailed Specification

Function

Controls up to two Polara XAV2E-LED Push Button Stations

Options Available

XAVCU2 (for AC voltage operation)
XAVCU2-DC (for DC voltage operation)

Electrical Properties

Power	
AC Power In	105-135 VAC, 60 Hz, 0.1A
Idle Current Draw	~2mA +1.2mA per XAV2E-LED
Peak Current Draw (15VDC input power)	~500mA with voice message at maximum
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/FLASH1 (2) (optional)	Optional relay drive, normally open Energizes external relays with onboard flash time adjustment (- negative polarity)
FLASH COM	10-24 Volts - Provides power for relays (+ polarity)
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 (19 seconds max.)
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)