

ESS10-0-10 ANALOG AMPLIFIER

Description:

The **ESS10-0-10** will generate a linear output voltage proportional to the joystick's handle position. The output can be adjusted from 3.5 to 11 volts. The board can be programmed for (4) basic output requirements: 0V to +V, -V to 0V, -V to +V with zero volts at center position, or +V with zero volts at center position (V=3.5 to 11 VDC).

Electrical Specifications:

Supply Voltage: 18-30 VDC
 Output Voltage: $\pm 10V$
 Output Current Max: 10 mA
 Output Configurations: 4
 Minimum Load: 1k Ohms
 Output Adj. Range: 3.5 - 11 VDC
 Offset Adj. Range: 0 - +/- 0.1V
 LED: Null set-up indicator
 Supply Current Max: 100 mA
 Effective Oper. Angle: $\pm 126^\circ$

Mechanical Specifications:

0.093" Fiberglass PCB with integrated or remote mounted command potentiometer.
 Operating Temperature: -25C to +75C
 Termination: 4 Pole terminal block
 Sealing: Upon request
 Potentiometer Life: 2-5 Million revolutions

Command Signal Options:

3 Wire potentiometer
 Center tapped potentiometer with shorting bar for null deadband
 Hall effect sensor

Trimpot Adjustments:

R1 Null offset
 R2 Maximum positive output
 R3 Minimum negative output

Output Options

