

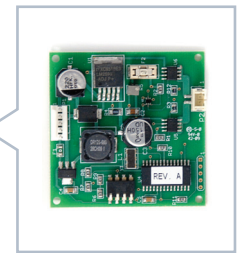


UNIBLITZ[®]
Electro-Programmable Shutter Systems

UNIBLITZ[®] N-CAS[®] ED12DSS Open Frame Driver for DSS Shutter Series

Overview

The ED12DSS is the optimal driver for the new UNIBLITZ[®] N-CAS[®] DSS Shutter Series. This device will operate a single DSS shutter or a single NS series bi-stable shutter from a +12 to 24VDC power supply. (Bi-stable mode only requires power when switching the shutter's state.) Once the input and output connector harnesses are connected, the user selects the open and close pulse duration - via the on-board 4-position piano switch - and connects a user supplied power supply. Once the shutter and the TTL input signal are connected together, the shutter's exposure can be controlled via a TTL square pulse input. (Pulse duration determined exposure time.)



The ED12DSS can be easily integrated into OEM applications where a +12 to 24VDC power supply is available.

Features

- Open frame printed circuit card suitable for OEM applications, see Figure #1
- RoHS Compliant
- Operates DSS series or NS series bi-stable shutter devices.
- 2-Pin JST shutter interface connector
- **203D** Shutter interconnect cable included – JST 2-pin to JST 2-pin 3ft in length
- Exposure determined by external pulse (BNC,TTL active high) or switch contact closure (when switching internal +5VDC into shutter input)
- In-line PULSE INPUT BNC active high 5V TTL
- Selectable pulse high current duration for specific DSS/NS series shutters via 4-position piano switch
- Internal fuse protection for SHUTTER OUTPUT
- Operates on +12 to 24VDC at 1.5A
- Power input to controller via 2-wire input harness
- **ED-IOP** Input cable harness included for power input, 5V TTL signal input (BNC) and +5VDC output (to enable driver from external switch or transistor contact). Input / output interface cable, red / black bare leads for power – 18 inches, BNC trigger input – 6 inches both terminate to Tyco / Amp 5-pin polarized connector for connection to ED12DSS.
- +12 to 24VDC External power supply (user supplied) for operation, PS12 not included
- Size (HWD) 0.50 x 2.25 x 2.25 inches (12.7 x 57.2 x 57.2 mm)
- Weight 0.730 oz (0.021 kg)

ED12DSS

Connections

P1 Power – Signal Input / Output

Pin #1 – INPUT: +12 to 24VDC Regulated

Pin #2 – PASSIVE: POWER RETURN

Pin #3 – PASSIVE: SIGNAL RETURN

Pin #4 – INPUT: TRIGGER INPUT (5V TTL – Active High)

Pin #5 – OUTPUT: +5VDC, 0.25A MAX.

P2 Shutter Output

Pin #1 – OUTPUT: SHUTTER (A) Red

Pin #2 – OUTPUT: SHUTTER (B) Black

Optional Items

PS12 - +12VDC, 1.5A Regulated Power Supply AC Adapter

ED12DSS – Drawing

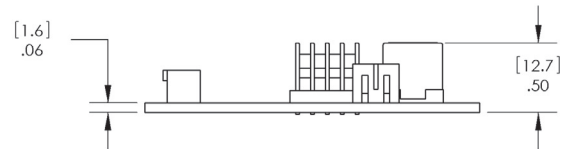
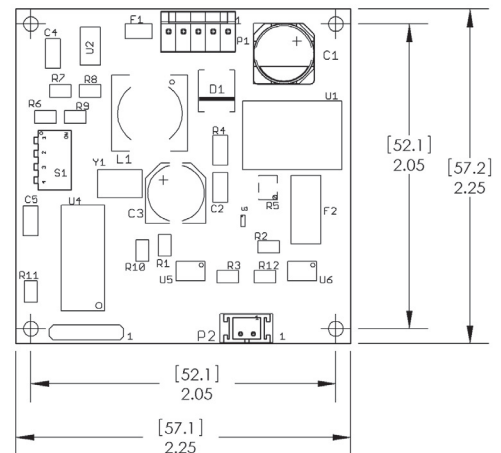


FIGURE #1

ED12DSS Printed Wiring Assembly Layout and Clearance Outline



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