

APPLIED CONCEPTS INC.

397 Route 281 - P.O. BOX 1175
Tully, New York 13159-1175
Phone: (315) 696-6676 Fax: (315) 696-9923
E-mail: www.acipower.com

CCFL INVERTER

(For Single Tube Applications)

The AC-1496 is designed to drive 1 CCFL to a nominal current level of 4.5mA.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 3 of CON1.

A +5V level is available at pin 4 of CON1 for powering the high-side of the intensity control potentiometer.

The lamp output is open and short circuit protected.

UL 1950 Recognized (File# E201813).

Specifications:

$V_{in} = +12V \pm 10\%$

CCFL strike voltage = 1050Vrms @ $V_{in}=12V$

CCFL tube current = 4.5mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 39kHz $\pm 10\%$

Nominal pwm frequency = 98Hz $\pm 3\%$

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >87%

Additional control capability:*

Enable/Disable function

Simple 1 or 2 button intensity control

CDS ambient light sensor control

Two-wire(variable resistance) intensity control

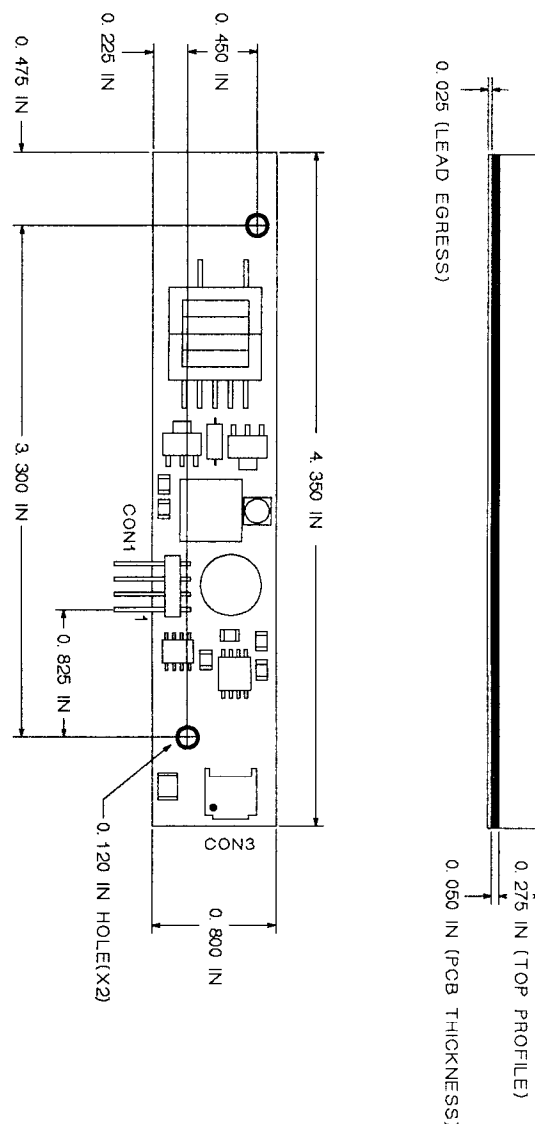
Serial communication control

* Please contact factory for information

AC-1496

PRODUCT DATA SHEET

01/05/05



INPUT CONNECTOR
CON1
MOLEX 22-28-8041

PIN #	FUNCTION
1	+VIN
2	GND
3	VCNTL
4	LOGIC HI OUT

OUTPUT CONNECTOR
CON3
JST SM02B-BHSS-1-TB

PIN #	FUNCTION
1	CCFL HOT
2	CCFL COLD