APPLIED CONCEPTS INC.

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AC2-12-1166

PRODUCT DATA SHEET

CCFL INVERTER

(For Multiple Tube Applications)

9/6/00

The AC2-12-1166 is designed to power 4 CCFL's to a nominal power level of 14.5 watts.

Intensity of the CCFL's is controlled by a CDS light sensor connected between pins 6 & 7 of CON1. Full intensity can be achieved by connecting pins 6 & 7 of CON1 together if desired.

Enable control is accomplished at pin 5 of CON1 (0V=off, 5V=on). This pin should be tied to pin 7 of CON1 if not implemented.

All outputs are open and short circuit protected.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1400Vrms @ Vin=12V

CCFL tube current = 6.0mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 500Vrms - 700Vrms

Nominal tube current frequency = 55khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 50 to 100%

Average electrical efficiency >90%

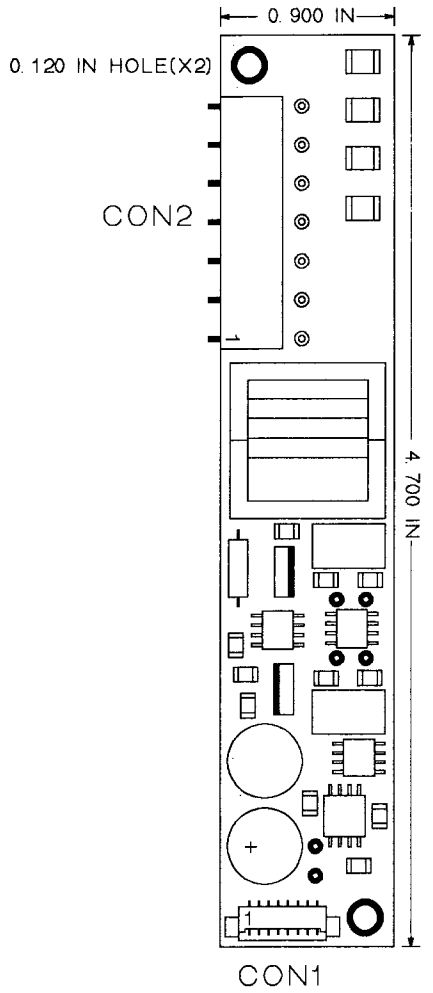
Output PWM sync signal @ pin 8 of CON1

*Additional control capability:**

UL 1950 recognition pending

Synchronization to display frame-rate

* Please contact factory for information



PROFILE < 0.575 IN

INPUT CONNECTOR
CON1
MOLEX 53261-0890

PIN #	FUNCTION
1	+12V(PWR)
2	+12V(PWR)
3	GND(PWR)
4	GND(PWR)
5	ENABLE
6	CDS CELL
7	CDS CELL
8	PWM OUT

OUTPUT CONNECTOR
CON2
MOLEX 22-28-1130

PIN #	FUNCTION
1	CCFL COMMON
2	NC
3	NC
4	NC
5	NC
6	NC
7	CCFL4
8	NC
9	CCFL3
10	NC
11	CCFL2
12	NC
13	CCFL1