

APPLIED CONCEPTS INC.

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AC7-28-1175

CCFL INVERTER

(For Dual Tube Applications)

PRODUCT DATA SHEET

10/10/00

The AC7-28-1175 is designed to drive 2 CCFLs to a nominal current level of 7.0mA.

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 outputs are open and short circuit protected.

Specifications:

$V_{in} = +28V \pm 10\%$

CCFL strike voltage = 1500Vrms @ $V_{in}=28V$

CCFL tube current = 7.0mA/tube @ 100% intensity/ $V_{in}=28V$

Recommended CCFL sustaining voltage = 500Vrms - 700Vrms

Nominal tube current frequency = 57kHz $\pm 10\%$

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

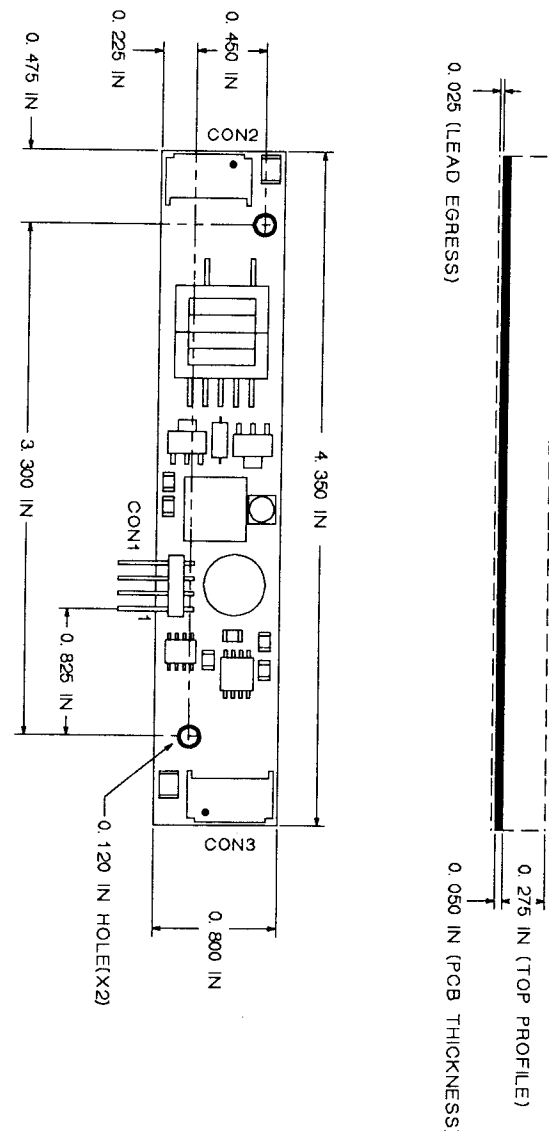
CDS ambient light sensor control

Synchronization to display frame-rate capable

Two-wire(variable resistance) intensity control

Serial communication control

* Please contact factory for information



INPUT CONNECTOR
CON1
MOLEX 22-28-8041

PIN #	FUNCTION
1	+VIN
2	GND
3	VCNTL
4	+5V OUT

OUTPUT CONNECTOR
CON2/CON3
JST SM03(4 0)B-BHS-1-TB

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	CCFL COLD