

TRANSFORMER DESIGN CHART

Our Multi-tap transformers are equipped with secondary circuit breakers that are connected to the COM. Each circuit can be loaded up to a maximum of 300 watts.

- A) Add up your fixture's wattage. Divide your load into 300W max. per wire run. **DO NOT EXCEED 300W PER RUN!!**
- B) Measure the approx. distance from the transformer to the first fixture on each run. Refer to chart to pick the correct tap for each run. You may use one, two, three or all taps at once.

WATT	TAP 1 12V		TAP 2 13V		TAP 3 14V		TAP 4 15V	
	AWG 12	AWG 10	AWG 12	AWG 10	AWG 12	AWG 10	AWG 12	AWG 10
100-149	38	60	76	120	113	180	151	240
150-199	25	40	50	80	76	120	101	160
200-249	19	30	38	50	57	90	76	120
250-300	N/A	24	N/A	48	N/A	72	N/A	96

Above chart suggests cable length for transformer utilizing 12V, 13V, 14V, or 15V settings.

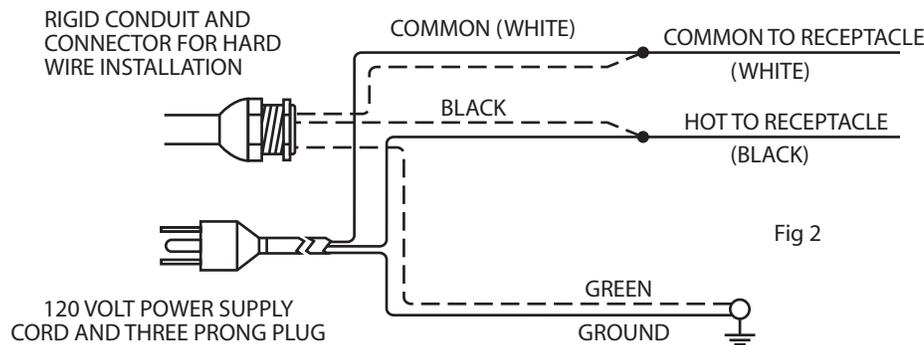
INSTALLATION OF 24 HOUR TIME CLOCK (OPTIONAL)

Recommend using optional Timer Model #T5 or #T6. Other plug-in timers with minimum load rating of at least 900 watts can be used provided they physically fit in the area provided.

1. Open the front hinged door of the transformer.
2. Unplug the cord from the receptacle.
3. Plug the cord into the 24 hour time clock.
4. Plug the 24 hour time clock into the transformer receptacle.
5. Set the time on the 24 hour time clock per the instructions provided with the time clock.

HARD WIRE INSTALLATION (OPTIONAL)

1. Make sure power is off and transformer is not plugged into an electrical outlet.
2. For transformers with a steel cover, loosen two screws on the sides, slide cover down and tilt forward.
3. Disconnect the power supply cord (solid lines from receptacle) and reconnect the wires from the conduit (dotted lines from conduit) as shown in Fig.2. Conduit is to be attached through one of the 7/8" knockouts located on either side of the console. Seal connection with waterproof sealant or silicone. **CAUTION: WIRING MUST COMPLY WITH THE NATIONAL ELECTRICAL AND LOCAL CODES.**
4. Close front cover and replace screw. Set time clock per instructions above.
5. Replace lid and secure. Turn power on.



HARD WIRE INSTALLATION (OPTIONAL)

1. Make sure power is off and transformer is NOT plugged into an electrical outlet. (NOTE: No splice is required; power console is equipped with jumper connector.)
2. Open front hinged door of transformer. Locate and disconnect the white jumper connector inside the housing. *** Save the jumper connector with these instructions for possible future use. ***
3. Remove the inner 7/8" diameter knockout hole. Inside the housing, slide the spacer and the star nut over the white connector. Thread it onto the photo control and tighten.
4. Plug the photo control's white connector into the housing connector. Ensure that the slide latch locks the connectors.
5. Locate transformer and position photo control so that no artificial light will shine on the photocell, as this will cause the photo control to cycle on and off. *** In the unlikely even that the photo control should fail, the light fixtures will remain on, even during the daytime. If this should happen, follow these instructions and remove the defective photo control and place the jumper connector in its place. ***
6. Close front hinged door. Turn on power. *** CAUTION *** If the photo control wire is run thru a wall, the wire must be protected by running it thru conduit that has at least 1" inside diameter.