

Installation Guidelines for APR60 and APR30

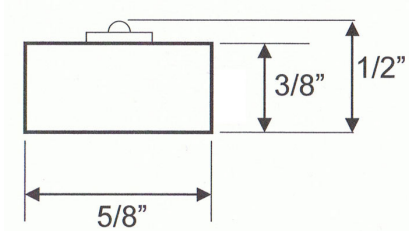
A cut-shot of the APR fixtures is shown at the right.

APR60s measure 39.4"

APR30s measure 19.75"

Maximum gap with integrated jumpers: 10"

Maximum overlap: 12"



They are designed to be chained and have a built in waterproof jumper which measures 6-1/4" inches. The fixtures can be spaced with a 10-inch gap or can be overlapped by as much as 12 inches. If a larger gap is necessary, such as connection



between runs on 2 opposing walls or moldings, the connections can be stripped and spliced to 16 gauge wire.

The total run from the power supply to the last lighting fixture of your chain should not exceed 100-feet. The longest run of APR

fixtures should be no more 18 chained APR60s – about 59 feet. This is because there is a loss of voltage as the current travels through the wiring and fixtures. The longest run of APR fixtures should be no more 18 chained APR60s – about 59 feet. Longer runs can be achieved by using multiple power supplies but they will not be dimmable with only one dimmer.

Mounting clips are included with each order. You will receive 2 mounting clips per fixture. These are designed to go over the fixture in between any 2 LEDs and will hold the fixtures firmly in place. The fixtures can also be mounted with epoxy or with Gardner Bender 3/4" plastic staples (pictured at right).



LED is directional lighting, meaning that it is more controllable than light emitted 360-degrees the way fluorescent is. You should consider whether your effect is best achieved by aiming at the ceiling or parallel to it. If you have a choice of mounting placements, you may want to wire up a fixture or two and just hold it up in a variety of positions to see what best achieve your desired effect.

Many people like the effect of grazing the ceiling (or etched glass or other textured surfaces) with LED. Grazing is done by aiming the light parallel to the ceiling and mounting 4 to 16" below ceiling height. The effect is soft and especially good for bedroom, home theaters and hallways. To get the maximum amount of light directed in a diffused way toward the floor, you should aim at the ceiling and you may want to use 1"x2" board cut on the diagonal which best aims your lighting at and across the ceiling.

Kick Power Supplies and PWM Dimmers

APR 60s and APR 30s are 12-volt ("low voltage") systems. Kick can supply 12-volt DC power supplies ranging from 30 watts to 150 watts. These are designed to be hardwired to 110v line AC line current. The larger power supplies, while not excessively hot, do perform best with ventilation. The PS30 is waterproof, produces very little heat and can be located nearly



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anywhere. A licensed electrician should tell you the best place to locate your power supply and should perform the installation work.

The power supply can be located after a wall switch or other existing 110v controls but should NOT be used after a dimmer designed to dim incandescent lighting. Kick Lighting can supply a pulse width modulation dimmer (PWM) which is the best way to dim LED lighting. Dimming with PWM does not result in color shift or any loss in efficiency and it extends the already long life of LED gear.

To use our KR8 PWM dimmer, the power supply should be connected to 110v AC line current and then to the KR8 dimmer. In a home situation it may be best to locate the power supply near the gangbox, then run the 12v output to the dimmer in the gangbox then run 16 gauge wire to the first fixture. In a semi-public environment such as building lobby or restaurant, you may want to have a 110v 2-way switch in the gangbox, and then run to the power supply and dimmer control which can be located as closely as possible to the first fixture.

More info at:
www.KickLighting.com

7/6/2008
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