Component of a complete system including: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included.

Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate: “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

**Controls compatibility**
- 2 Wire, forward-phase, magnetic transformer. Load driver between 50 to 80% of maximum rated wattage.
- Requires RPM-4A for +/-1% dimming.
- RPM-4U for +/-10% dimming
- Compatible with few wall box dimmers- Contact Aion LED representative for more information.

Max LED run per circuit
- [4A (96W) per circuit] (NEC Article 725)
- 10% Headroom included
- Use electrical junction boxes to transition between building wire and Aion LED power feeds per local code.

Sub Boxes
- Use larger gauge cord for sub feeds and longer runs. Junction building wire to fixture whips within electrical boxes per local code.

**Heat & EMI**
- Magnetic DC transformers emit heat and electromagnetic energy. Adequate ventilation required (NEC Article 450)
- Requires 15 inches of space between each transformer.
Installation Instructions

Caution:
Turn main power off at breaker prior to installation or service
Must be installed by licensed & bonded electrician strictly adhere to NEC & local code

D60-D-24 & D100-D-24 are suitable for exterior applications, others are intended for interior use only
Standard input voltage is 120VAC, 240VAC & 277VAC applications require separate part number
Standard output voltage is 24V DC, 12V DC applications require separate part number

Installation:
Do not load more than 80% of max rated output
Consult with Aion LED to determine max lineal footage per fixture series

Minimum Load: 50%, Maximum Load: 80%

NEC Article 450: (transformer) requires adequate ventilation for convection cooling install in an open area,
Do not install in a sealed space
Ambient temperature max: 110°F.
Allow at least 15 inches of space between multiple units

Requires UL listed wire nuts, connectors, clamps, & cabling suitable for application mount unit vertically with knock-outs facing downward

Wiring:
Primary (AC input): black = line, white = neutral, green = ground
Secondary (DC output): red = DC+ (pos) , blue = DC- (neg) [polarity sensitive]
Unit must be grounded to earth

Dimming:
Use of unapproved dimmer or control voids standard 5-year warranty against defects & may cause Irreparable damage.
Use approved magnetic low-voltage, forward (or adaptive) phase controls only
Please contact Aion LED to ensure compatibility prior to ordering

Programming:
Control system programming must be implemented by authorized personnel only. Lutron electronics requires factory authorized programmer or warranty will be voided. Low & high trims should be set at 10 & 90% respectively, low trim may be dialed down as required

Lutron Grafik Eye QS and newer:
Load type must be pre-configured to ‘MLV’ , DO NOT USE ‘incandescent’ setting
Although both types share the same terminals, ‘MLV’ load type setting is required for safe use

Lutron Homeworks, LCP, & similar that require Lutron remote panel modules:
#RPM-4A (adaptive phase module) dims 8% lower than #RPM-4U (forward phase module) per Lutron report card

Other resources:
Aion LED voltage drop chart
Aion LED D-series specifications

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