SWITCHEX SERIES

12V/24V All-In-One Dimmer + Driver

SWITCHEX simplifies LED array lighting systems by combining an in-wall LED dimmer switch and power supply into a single integrated unit. SWITCHEX mounts in a standard in-wall switch box, accepts 120V AC and converts to low voltage DC. SWITCHEX is compatible with most 12VDC and 24VDC tape light* and fixtures.

- All-in-one LED Driver + In-Wall Dimmer Switch
- Simplifies LED installation by eliminating compatibility issues*
- Fits in a standard recessed electrical box
- 5-100% dimming range - No minimum load
- Single Pole preset dimmer with on/off push switch
- Adjustable voltage output dial to address voltage drop
- Includes voltage barrier partition to install high and low voltage circuit in same switch box
- No derating required when ganging units
- Power failure memory recalls settings prior to interruption
- Includes three face plates: White, Almond, and Dark Brown (Trim plates not included)

c UL us LISTED — Conforms to NEC Code — CE — FC

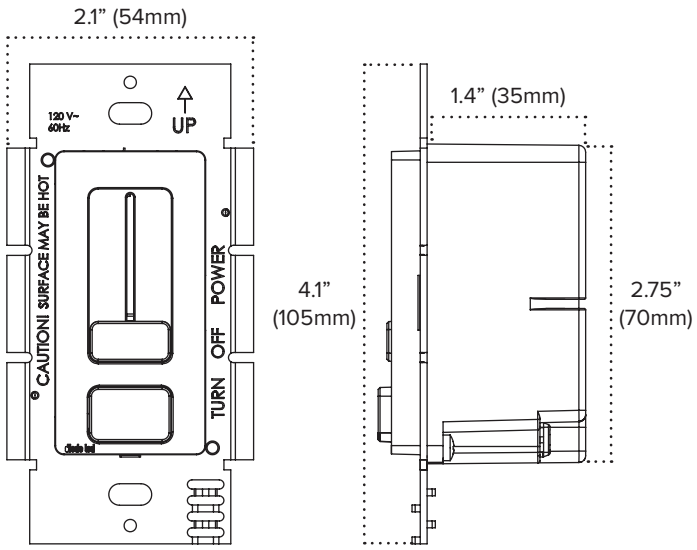
PROJECT:	
TYPE:	
LOCATION:	
CATALOG NUMBER:	

SWITCHEX QUICK SPECS

INPUT VOLTAGE	120V AC (108~132VAC), 50/60Hz
INPUT CURRENT	<1.0A @ 120VAC max load
OUTPUT VOLTAGE	12V DC / 24V DC
STAND-BY POWER	≤0.5W
MAX LOAD	60W, 5A (12V 60W) / 60W, 2.5A (24V 60W) / 100W, 4.2A (24V 100W)
POWER FACTOR	>0.9/120VAC @ max load
EFFICIENCY	91% @ 120V max load
DIMMING	5-100%
PROTECTIONS	Short Circuit, Thermal Runway, Over Voltage
AMBIENT TEMP	0°C to 40°C
RATINGS	cULus Listed / Indoor Use Only

*Not compatible with STL series tape light.

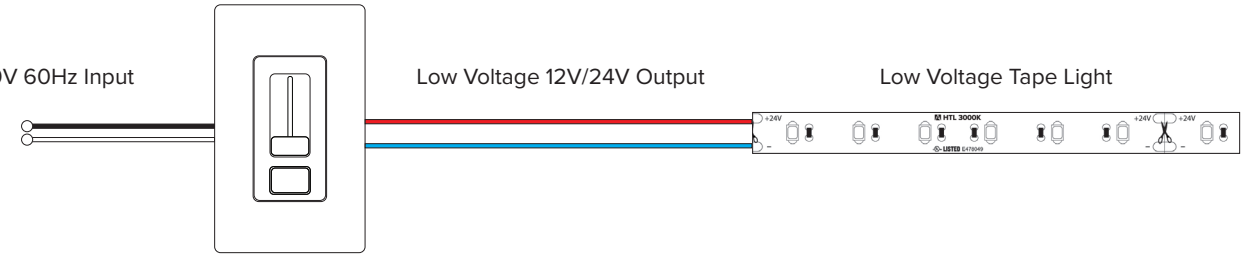
SWITCHEX QUICK DIMENSIONS



SWITCHEX ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION
SWX-60-12	12V - 60W SWITCHEX Dimmer + Driver
SWX-60-24	24V - 60W SWITCHEX Dimmer + Driver
SWX-100-24	24V - 100W SWITCHEX Dimmer + Driver

SWITCHEX QUICK SET-UP



SWITCHEX COMPLIANCE & REGULATIONS

- cULus Listed (US & Canada) Low Voltage Lighting System
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- RoHS Certified.
- CE Certified.
- Conforms to NEC Code 725.136 (See Mechanical Diagram): Class 1 and Class 2 circuit in same enclosure must be separated by a barrier (partition) unless Class 2 circuit conductors are install in accordance with 725.41 Class 1 Circuits.

SWITCHEX INPUT

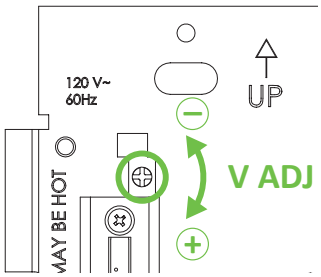
- Input Voltage: 120VAC (108 ~ 132VAC), 50/60Hz (47 ~ 63Hz)
- Power Factor: >0.9 @ 120VAC 60Hz max load.
- Total Harmonic Distortion (THD): ≤20% @ 120VAC 60Hz max load.
- Tested to comply in accordance with IEC 61000-3-2.
- Stand-by Power: ≤0.5W.
- Efficiency: ≥91% @ 120VAC max load.
- Input Current: <1.0A @ 120VAC max load.
- In-Rush Current: Meets NEMA-410 requirement at any nominal input full sine wave voltage and maximum load at 25°C.
- Leakage Current: <500µA @ 120VAC.
- Surge/Transient: Tested to meet transients defined in IEC 6100-4-4, level 3 & IEC 6100-4-5, level 3.

SWITCHEX OUTPUT

- Dimming: Output voltage is adjustable via sliding lever
- Voltage Adjustment Dial: Increases output +1V to compensate for voltage drop from control to luminaire.
- Startup Time: The main supply output voltages remain within the regulation limit of +/- 3%.
- Protections: Short circuit, thermal runway, and over voltage.
- Output Ripple Current: ≤20% of the rated output current @ 120VAC max load.

SWITCHEX VOLTAGE ADJUSTMENT

SWITCHEX can provide a 1V boost if the fixture is receiving noticable light degradation.
a. Pop off face plate.
b. Use a small screwdriver to adjust output boltage by turning adjustment dial clockwise.



AMERICAN LIGHTING WARRANTY

LIMITED WARRANTY FOR LED PRODUCTS: 2 YEARS

LIMITED PRODUCT WARRANTY

Our products are warranted to be free from defects in material and workmanship for the warranty period listed. Warranty periods begin from the date of shipment from American Lighting Inc's warehouse to the original purchaser. Products that prove to be defective during their specific warranty period will be either repaired or replaced, at the sole discretion of American Lighting Inc. Claims for defective products must be submitted in writing to American Lighting Inc's RGA Department within the warranty period. Upon approval of such return, American Lighting Inc reserves the right to inspect the product for misuse or abuse. Claims for indirect or consequential damages or for product that, in American Lighting Inc's opinion, has been misused will be denied. This is a warranty of product reliability only and not a warranty of merchantability or fitness for a particular purpose. American Lighting Inc shall have no liability whatsoever in any event for payment of incidental or consequential damages, including, without limitations, installation costs and/or damages for personal injury and/or property. These products may represent a possible shock or fire hazard if improperly installed or altered in any way. This warranty does not apply to any product that has not been properly installed in accordance with current local codes and/or the National Electrical Code. Products that require a transformer, driver, or power supply must be used in conjunction with American Lighting Inc's recommended power supply to ensure safety and retain product warranty.

PRODUCT SPECIFICATIONS

For the latest product information, updates, instructions and details concerning specifications, colors, finishes, performance, installation and design, visit www.americanlighting.com. Color may vary from the color printed herein due to limitations in photographic and printing processes. American Lighting Inc. reserves the right to change product specifications without notice. Other product specifications such as color temperature, wavelength characteristics and lumen output are subject to production limitations and may vary.
LED technology is changing rapidly, and not all color temperatures and performance levels can be duplicated at a later time. Best practices include purchasing 10-15% more for a particular project on the same initial order where white LED color temperatures must be maintained over project and product life. Eventual product replacement should be considered at layout and design stages. Best practices also include testing connections and product performance prior to mounting and/or installing.

AVERAGE LIFE

Average incandescent lamp life, rated life and average life are terms used to describe the number of hours at which half of the lamps have failed. For LEDs, the hours of rated life specify the point where 70% of original lumen output is reached. Below this point, the effective life is over, however, the LED may still emit light. Individual results may vary with actual environmental conditions including, but not limited to, proper installation, ambient temperature and/or input voltage fluctuations.