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AL-WS-M24

Decorator style

12, 24, 48 V Motor/LED driver

with integrated switch

30 and 40 watt options

Optional PIR



[Product Description - AL-WS-M24 wall switch](#)

This switch operates just like any standard residential light switch – however it takes 44-54v DC instead of 120VAC, and directly drives up to 40 watts of Constant Voltage 24v loads. This Decorator style switch in a standard residential style outline fits into any home, looks like any switch yet meets NEC Class 2 article 411 and 725 for low voltage applications.

Intended for stand alone, simple On/Off switching of 12v, 24v or 43v loads. Internal Jumper selectable 660 ma, 1320, 1400 or 1700 mA outputs. Provides Hot Swap protection, the leading cause of driver / fixture failure when a technician works “hot”, especially with capacitive loads like motors. Internal jumper selection for 12, 24 or 43v voltage limited output

The Switch can connect to an external PIR sensor for motion sensing applications.

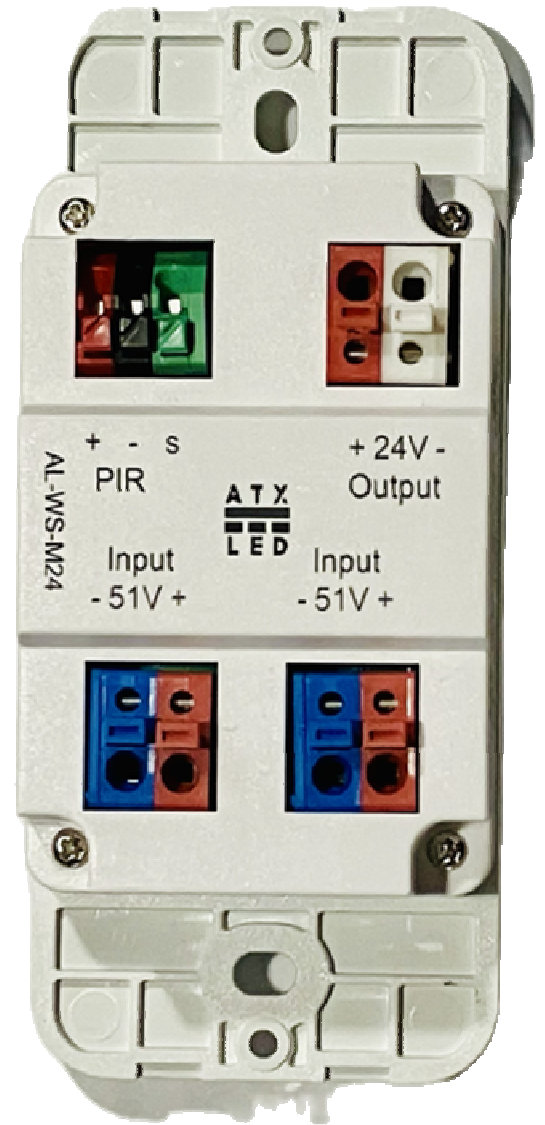
The switch can be connected via a jumper cable to an AL-WS-DR2 to support PIR motion sensing, 48v or 24v fan motor control, at up to 40 watts.

When used with a AL-WS-DR2 controlling CCT tunable bathroom lights, this add-on allows full timer integration between an exhaust fan and a AL-WS-DR2 in CCT mode.

A status LED shows the On/Off state for quiet DC motors

Specifications

Power source and pass-thru	Spring loaded connectors (2 pairs) for AWG 16-20 wire
Input Voltage	44-54vdc
Input Wattage	32 watts input for 30 watts output 42 watts input for 40 watts output
LED / Motor Output Voltage	12 Volt 1320 mA = 16 watts 24 Volt 1320 mA = 32 Watts
On/Off (no dimming)	24 Volt 1700 mA = 40 Watts on request
fast response current limiter	43 Volt 660 mA = 28 Watts 43 Volt 1320 mA = 56 Watts
Motion Sensor support	12v supply to an external Motion Sensor selectable OD or 010v signal
Output Current	Option a) Selectable 600 mA or 1300 mA Option b) Selectable 1200 mA or 1700 mA
Conversion efficiency	Over 95%
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	108 x 42 mm Frame 70H x 34 D x 42 W mm Body
Dimming	Not provided
FCC and interference	All outputs are RF filtered for minimal interference
Maximum output voltage	24v Default 43v (jumper selectable)
Minimum output voltage	6 volts (current limited mode)
Hot Swap	Yes - can unplug and connect Loads with power applied without damage
AL-WS-DR2 upgrade	Can operate as a peripheral to an AL-WS-DR2 motion sensing 24v or 48v fan control



Internal Jumper Settings



J12 \ J11	Open	30w closed	40w
Open	12v 8w	12v 16w	12v 20w
24v	24v 16w	24v 32w*	24v 40w
43v	43v 28w	43v 56w	43v 60w

* Standard Model

Ordering part numbers

Model	Used With
AL-WS-M12v16w	Exhaust fans
AL-WS-M24	Ceiling Fan
AL-WS-M43v28w	ATX 660mA Fixtures
AL-WS-M43v56w	ATX 1320mA Fixtures
AL-WS-M12v20w	Audio Amplifier
AL-WS-M24v40w	Ceiling Fan
AL-WS-M43v60w	ATX 1320 mA Fixtures