

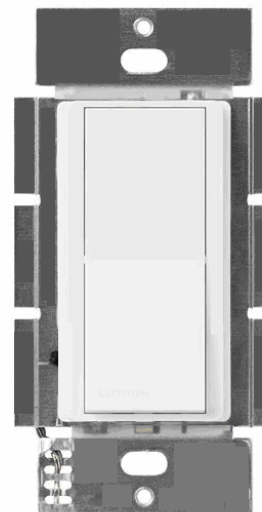
# ATX LED AL-WS-M

<http://atx-led.com>

**Decorator switch style  
Low Voltage Switch  
for 3-Way  
On / Off / Dim**

Connects on button press

**use with any Signature product**



## Product Description - AL-WS-M Momentary wall switch

This switch looks just like any standard residential light switch – however it operates from low voltage DC. This Decorator style switch in a standard residential style outline fits into any home, looks like any switch yet meets NEC article 411 for Low Voltage lighting controls. It is a momentary action – it shorts the IN lines when pressed.

As a momentary contact switch, it can signal to an AL-WS series wall switch, to turn a light On, Off or Dim, or to operate an Exhaust fan. Many AL-WS-M can be wired in parallel to allow multiple points of switching with simple one pair of awg 24 or better wire.

The proven switch mechanics leverage mass production of decorator switches - now for Low voltage applications – a casual user requires no training, no App, no Internet to use this switch. When used with AL-WS series switches, perfect, flicker free dimming from off to 1% to 100% is possible, as is control of attached fans.

For 3-way operation – a simple 2 wire link with AWG24 or better allows 2, 3, or an unlimited number of switches to control one set of LED's. The AL-WS family includes many switch options, the AL-WS-M can be used with these switches.

### ATX LED Signature Series



AL-WS-DR2

DALI bus, LEDs, Fan  
56 watts



AL-WS-010v

DALI bus and 0-10v



AL-WS-DR2W

WiFi, LEDs, Fan  
56 watts

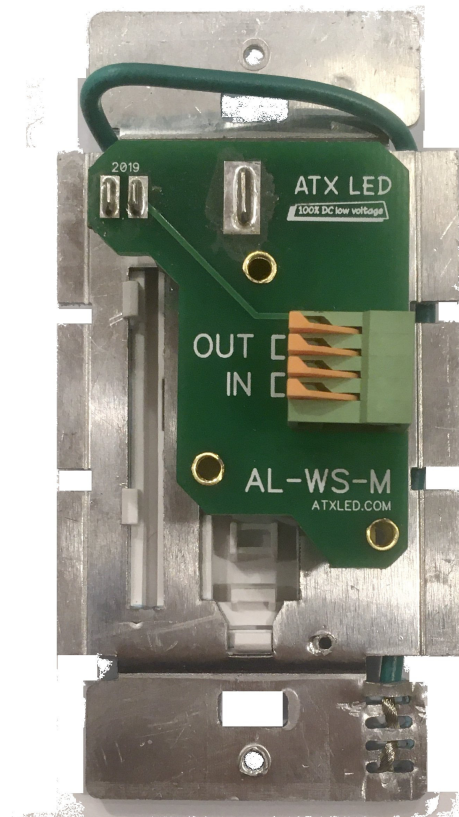


AL-WS-DR2C

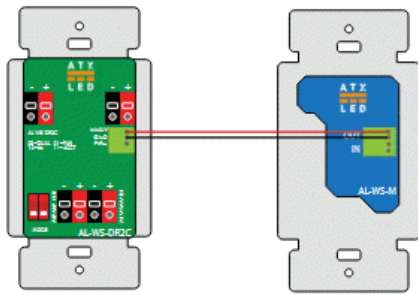
Low cost, LED, Fan  
56 watts

### Specifications

|                     |  |
|---------------------|--|
| Signal Contact      | Spring loaded connectors ( 2 pairs )<br>for AWG 18-24 wire – pass thru                     |
| Input voltage range | 3 to 52 volts  |
| Contact current     | Under 1 mA needed by AL-WS switches<br>Switch can handle 5 amps                            |
| Size                | 108H (metal) 70H x 34 D x 42 W mm  |
| Dimming             | Press and hold for Dimming when connected<br>to the N-Way input of a AL-WS-DR2             |
| Fan control         | Used to signal the AL-WS-DR2 to turn an<br>Exhaust Fan on and off, subject to device Rules |
| IN                  | Par of connectors to a DR2   |
| OUT                 | Pair of connectors to the next AL-WS-M   |



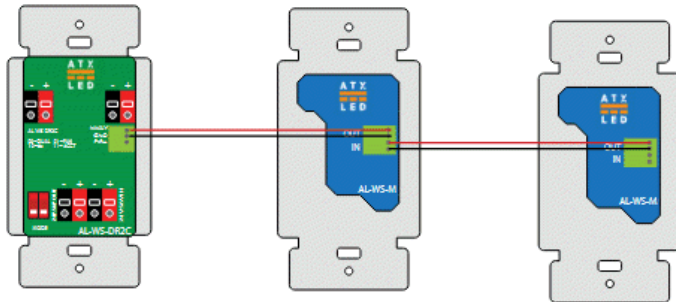
**Wiring the AL-WS-M:** See <http://atxled.com/How2> page 20



Here are few examples of 3-way configuration.

When a 3-way switch is connected, the driver switch automatically detects whether it is a rocker type or momentary type.

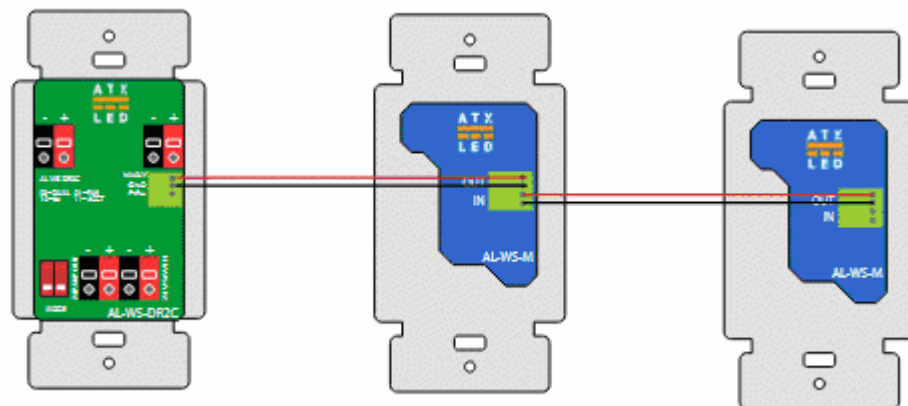
Momentary switches can dim the lighting circuit locally, just hold down the switch and the dim level will cycle, release when desired level is achieved.



## ATX 3-Way control options

| Application             | Main Switch                     | 3-Way switch                    | 4-Way                           | 5-Way                         |
|-------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|
| On/Off only             | 'Home Depot'<br>low cost<br>\$2 |                                 |                                 |                               |
| On/Off 3-way            | 'Home Depot'<br>3-Way<br>\$2.50 | 'Home Depot'<br>3-Way<br>\$2.50 | 'Home Depot'<br>4-Way<br>\$17   | 'Home Depot'<br>4-Way<br>\$17 |
| On/Off Local<br>Dimming | AL-WS-DR1                       | 'Home Depot'<br>low cost<br>\$2 | 'Home Depot'<br>3-Way<br>\$2.50 | 'Home Depot'<br>4-Way<br>\$17 |
| On/Off smart<br>Dimming | AL-WS-DR2                       | AL-WS-M                         | AL-WS-M                         | AL-WS-M                       |

## AL-WS-DR2 with smart local and remote dimming



## Conversion from AL-WS-M to AL-WS-R

### Changing colors

The white plastic front part can be removed with a flat blade ( like a kitchen knife ) at the corner with the screw. Insert the blade, twist until the plastic pops off, then replace the part with the AL-R for momentary

or with AL-M for different colors