

AL-WS-010V

LOW VOLTAGE DaBUS WALL SWITCH



Smart DABus Switch for 0-10 V Control via IEC 62386

The AL-WS-010V smart dimmer light switch can function as a wall switch for controlling many LED drivers via 0-10V, PWM or the DABus (IEC 62386) including DT8 color tuning. See <https://www.dali-alliance.org/dali/standards.html> for more info on this bus. Users perceive it as a simple wall switch with Three-Way support. Advanced features include tunable white applications. It has a standard rocker switch with a brightness slider, which controls 0-100% smooth dimming when connected to ATX LED's high-quality LED fixtures. Up to 63 AL-WS-010V can be wired in parallel and combined with other DABus devices to form a large multi-master DABus system.

Key Specifications

Electrical/Operational	
Power requirements	5 mA max from the DABus
Input voltage range (IEC 62386)	14 V to 24 V DC
PWM output	100 Hz, 0-100%, 0.5-2.8 V, 1 mA max
PWM input	100 Hz, 0-100%, 0-3.3 V, 100 μ A
Power consumption	64 mW @ 15 V plus the load on the 0-10 V outputs
0-10 V outputs	Off: 0-1 V; On: dimming from 1.2 V to 10 V
Three-Way switching	contact input for simple On/Off switches
Protection	Reverse protection and static protection
Standard Connections	
DABus and Power source	Spring-loaded connectors (2 pair) for AWG18-24
PWM, 0-10v (2), N-Way	Spring-loaded connectors (5 pair) for AWG18-24

Features

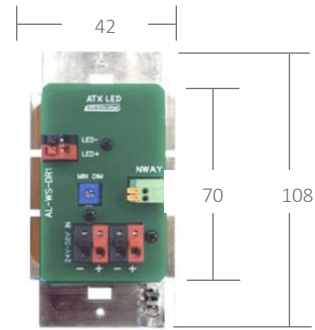
- Standard decorator-style appearance
- DABus IEC 62386 support for industry standard DA devices
- Converts DABus to PWM or 0-10 V
- Low voltage operation allows installation using AWG18 to 24

Certifications

- NEC article 411
- UL Listed - E500649UL Listed - E500649
- Meets FCC RF standards for minimal interference

Dimensions

External size (metal)	108 mm x 42 mm W x 34 mm D
External size (switch)	70 mm x 42 mm W x 34 mm D



Model Quick Reference

Ordering	LED	Dimming	0-10 V	Fan	Vacancy/	3-Way ¹	Smart ²	WiFi
AL-WS-BATH	1	X		X		X		
AL-WS-DR1	1	X						
AL-WS-DR1-PIRC	1	X			X	X		
AL-WS-DR2C	2	X		X		X		
AL-WS-DR1-PIR	1	X			X		X	
AL-WS-010V	1	X	X			X	X	
AL-WS-DR2	2	X		X		X	X	
AL-WS-DR2W	2	X		X		X		X

Notes:

1 - Compatible with AL-WS-M Momentary Switch for 3-way.

2 - IEC 62386 compatible

Part Numbering

AL	-	WS	-	010V
ATX LED		Description		Variety

