

Features

The AirLink[™] wireless solution incorporates load controls, wireless occupancy/vacancy/daylight sensors, and wireless switches, which provide a system that delivers energy savings, convenience, and ease of installation.

All wireless controls are also compatible with the wireless hub which provides a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. The hub enables control and monitoring of all wireless devices. The hub can be added at any time. System reprogramming required.

- Lutron patented Clear Connect RF Technology works through walls and floors
- Incorporates advanced features such as fade ON / fade OFF, high-end trim, and rapid full-ON
- Controls include Front Accessible Service Switch (FASSTM) for safe lamp replacement
- · Two-wire dimmers and switches available for retrofit
- Power failure memory: If power is interrupted, the control will return to its previously set level prior to interruption
- On a single-tap, lights fade UP or DOWN, on a double-tap, lights go to full ON

- · When ON, press and hold to engage 20-second fade to OFF
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached
- Two-wire dimmers available

Specifications

Regulatory Approvals

- UL[®] Listed
- cUL[®] Listed (WBD-MLV120)
- CSA Certified (WBD-ELV120)
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules
- Industry Canada Certified
- The following model numbers have been tested and found compliant with UL 2043 for use in air handling spaces: WBD MLV120

Certifications & Affiliations





AirLink Maestro® Wireless Wallbox Dimmer

Specifications Continued

System Communication & Capacity

- Wireless controls communicate with the wireless switches and wireless sensors through radio frequency (RF)
- Receives wireless inputs from up to 10 wirelesss switches, 10 occupancy / vacancy sensors and 1 daylight sensor
- Wallbox dimmers must be located within 60ft (18m) line-of-sight or 30ft (9m) through walls, of wireless sensors and wireless switches

Power and Performance

• Operating voltage: 120V⊖ 50/60 Hz

Environmental

- Ambient operating temp: 32°F to 104°F (0°C to 40°C)
- Relative humidity: maximum 90% non-condensing; indoor use only

All RF Local Controls

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2
- Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits
- Controls always operate locally and do not require system control

- Uses conventional 3-way and 4-w
- Requires a one-gang U.S. wallbox; 3.5in (89mm) recommended, 2.25in (57mm) deep minimum

wiring

Warranty

• 1-year Limited Warranty



Ordering Information

All switches and wall kits available in White (WHT/WH), Ivory (IV), and Light Almond (LA) Example: 632720WHT or WBD MLV120 WH

Part #	Catalog #	Description
632720WHT	WBD MLV120 WH	<code>Maestro®</code> Wireless Wallbox Dimmer $-$ 1000 INC HAL Magnetic Low Voltage 120V in White
632720IV	WBD MLV120 IV	<code>Maestro®</code> Wireless Wallbox Dimmer $-$ 1000 INC HAL Magnetic Low Voltage 120V in Ivory
632720LA	WBD MLV120 LA	<code>Maestro®</code> Wireless Wallbox Dimmer $-$ 1000 INC HAL Magnetic Low Voltage 120V in Light Almond
665155WHT	WBD ELV120 WH	Maestro® Wireless Wallbox Dimmer $-$ 600 W Electric Low Voltage 120V in White
665155IV	WBD ELV120 IV	Maestro® Wireless Wallbox Dimmer $-$ 600 W Electric Low Voltage 120V in Ivory
665155LA	WBD ELV120 LA	Maestro® Wireless Wallbox Dimmer — 600 W Electric Low Voltage 120V in Light Almond





Receiving Devices



Wireless occupancy sensors



Wireless hall/wall/ corner-mount occupancy and vacancy sensors



Wireless daylight sensors Switches





Wireless switches



enabled by Lutron®

AirLink[®] Maestro[®] Wireless Wallbox Dimmer

Mounting





Wiring

Single-location Dimmer Installation without Neutral -WBD MLV120



¹ When using controls in single location installations, tighten the blue terminal without any wires attached. Do not connect the blue terminal to any other wiring or to ground

Single-location Dimmer Installation with Neutral -WBD ELV120





Ganging and Derating

When combining controls in the same wallbox, derating is required (see below for Load Type and Capacity tables)

Dimmer Load Type and Capacity

No Neutral Required

Control	Voltage	Load Type	Min. Load	A. Not Ganged	B. End of Gang	C. Middle of Gang
WBD MLV120 ^{1,2}	120V⊖	MLV ²	50 W/VA	450 W/600 VA	400 W/500 VA	300 W/400 VA
		CFL/LED, Incandescent	50 W (see lamp list)	See mixing lamps below		
Neutral Required			Max. Load			
Control	Voltage	Load Type	Min. Load	A. Not Ganged	B. End of Gang	C. Middle of Gang
WBD ELV1201,2	120V 😔	ELV	5 W	600 W	500 W	400 W

Mixing Lamp Types

Mixing lamp types (using a combination of CFL / LED, and Incandescent / Halogen bulbs) and ganging with other dimmers or electronic switches may reduce maximum wattage, as shown. Example: If fins from one side of dimmer are removed and you have two 24 W bulbs installed (total CFL Wattage = 48 W), you may add up to 300 W of incandescent or halogen lighting.

Total CFL/LED Wattage		Total Incandescent/Halogen Wattage					
		A. Not Ganged	B. End of Gang		C. Middle of Gang		
WBD MLV							
0 W	+	50 W - 600 W	or	50 W - 500 W	or	50 W - 400 W	
1 W – 2 5W	+	0 W - 500 W	or	0 W - 400 W	or	0 W - 300 W	
26 W – 50 W	+	0 W - 400 W	or	0 W - 300 W	or	0 W - 200 W	
50 W - 75 W	+	0 W - 300 W	or	0 W - 200 W	or	0 W - 100 W	
76 W - 100 W	+	0 W - 200 W	or	0 W - 100 W	or	0 W - 50 W	
101 W - 125 W	+	0 W - 100 W	or	0 W - 50 W	or	0 W 0	
126 W - 150 W	+	0 W	or	0 W	or	0 W	
				Max. Load			
Total MLV Wattage		600 W		500 W		400 W	

Example: If a dimmer is installed in location "B" above and there are two 24 W CFL bulbs installed (Total CFL Wattage = 48 W), you may add up to 300 W of incandescent or halogen lighting

The AirLink System

Wireless controls & sensors

Contact LSI Controls

controls.support@lsi-industries.com 1 (800) 436-7800 (support, option 8)

More information For more information on AirLink, visit our website at www.lsi-airlink.com/airlink

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