

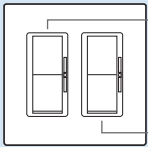
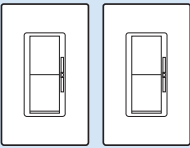
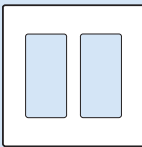


Multigang Design Example

Multigang Installations for Designer- and Traditional-Style Controls

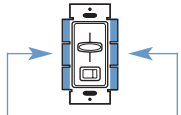
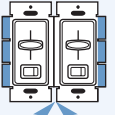
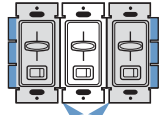








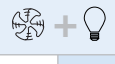
For Architectural-Style Controls, see Multigang Design Example, pg.42.

Design Steps	Example
<p>1 Determine the load on each control</p> <p>Record load type and calculate the load capacity for each dimmer</p>	<p>A home office has two zones of light. Three 50W magnetic low-voltage (MLV) downlights illuminate the computer desk. Using the UL efficiency limit of 80%, this is a 187.5VA load ($150W / 80\% = 187.5VA$). The central office lighting is provided by four 75W incandescent downlights.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(4) 75W Incandescent Downlights $4 \times 75W = 300W$</p> </div> <div style="text-align: center;">  <p>(3) Magnetic Low-Voltage Downlights $3 \times 50W = 150W$ $150W / 80\% = 187.5VA$</p> </div> </div>
<p>2 Position the controls</p> <p>Sketch the position of each control along the wall and record if it has one or two fins/side sections removed</p>	<p>Control of both zones will be mounted under a common wallplate near the entrance. Each control has 1 fin broken.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>187.5VA Magnetic Low Voltage, 1 fin broken</p> <p>300W Incandescent, 1 fin broken</p> </div> </div>
<p>3 Select the controls</p> <p>Choose the control family based on style, features, and colors/finishes</p> <p>Use the derating chart on the next page to determine the capacity of multigang dimmers with the side sections removed</p> <p>Use Interfaces as needed. pg.184</p>	<p>The Diva® preset control family was selected.</p> <p>A DVLV-600P- with 1 fin broken has a 500VA capacity (sufficient for the 187.5VA load).</p> <p>A DV-600P- with 1 fin broken has a 500W capacity (sufficient for the 300W load).</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>(1) DVLV-600P-WH (1) DV-600P-WH</p> </div> </div>
<p>4 Select accessories and multigang wallplates</p> <p>Designer Accessories and Wallplates, pg.76</p> <p>Fassada™ Fashion Wallplates, pg.100</p> <p>Consider engraved wallplates, contact Lutron Customer Service</p>	<p>Claro wallplate are being used for a screwless, seamless appearance.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>(1) CW-2-WH</p> </div> </div>

Ganging and Derating Chart

Derating Requirements for Designer- and Traditional-Style Controls

These controls have fins/side sections that **must be removed when ganged**. Removing this metal reduces the heat the control can dissipate, thus reducing the control wattage capacity (derating).

Load Type	FULL Capacity	DERATED Capacities	
	NO FINS BROKEN	ONE FIN BROKEN	BOTH FINS BROKEN
	 No fins/side sections removed	 One fin/side section removed from each control	 Two fins/side sections removed from center control
 Incandescent ¹	600W 1000W	500W 800W	400W 650W
 Dual Slide Dimmers	300W/300W	250W/250W	200W/200W
 Electronic Low Voltage	300W 500W 600W	250W 450W 500W	200W 400W 400W
 Magnetic Low Voltage ¹	600VA (450W) 1000VA (800W)	500VA (400W) 800VA (650W)	400VA (300W) 650VA (500W)
 Fluorescent Hi-lume® Diva®, Skylark®, Ariadni® Spacer System™ Tu-Wire® ² Non-Dim	6A 8A 20 Ballasts/6A 5A 6A	No Derating Required No Derating Required 20 Ballasts/5A 4A 5A	No Derating Required No Derating Required 20 Ballasts/3.5A 3.3A 3.5A
Fan Controls			
 Quiet 3-Speed ³	1.5A	No Derating Required	No Derating Required
 Fully Variable	5A	4A	3A
Fan/Light Controls			
 Quiet 3-Speed ³	1.5A/300W 1.5A/360W	No Derating Required No Derating Required	No Derating Required No Derating Required
 Fully Variable ⁴	2.5A/300W	2.1A/250W	1.7A/200W
Electronic Switches			
Faetra™ Maestro® Spacer System™	6A Light or 3A Fan 8A Light or 3A Fan 6A Fluorescent	5A Light or 3A Fan 6.5A Light or 3A Fan 5A Fluorescent	3.5A Light or 3A Fan 5A Light or 3A Fan 3.5A Fluorescent

¹ Minimum loads: 40W for Spacer, Maestro, and Faetra dimmers; 60W for Spacer System dimmers. ² Minimum capacity: 2 ballasts and 0.25A.

³ For use with one ceiling paddle fan; prevents fan motor hum. ⁴ Total fan plus light load may not exceed 2.5A.