

Multi-Location Dimming

Product: Renoir® II Architectural Wall Box Dimmers **Article ID:** 20091214-DLB-RenoirII-02

Date: December 14, 2009

Summary: The Renoir II product line supports a unique method of multi-location dimming which allows for wiring methods consistent with traditional 3-way wiring methods yet supports any combination of up to five masters and/or remotes and supports dimming from a remote location.

Information: The Renoir II dimming line has a number of unique features supporting multi-location dimming. The following are all critical points to consider when laying out these systems:

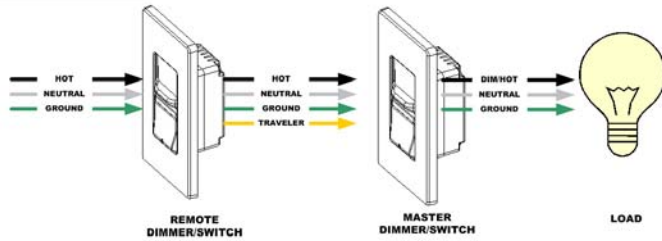
- Master dimmers are dimmers that connect to the load
- Remote dimmers are dimmers that control a master
- Both remote dimmers and switches are available
- Remote dimmers operate identically to the masters
- Up to (5) devices may be installed on one traveler wire, supporting any combination of masters and remotes
- Maximum 250' traveler wire length (longest run)
- Any topology is supported (home-run, daisy chain, "T")
- When multiple masters are all connected on the same traveler wire
 - A control change from a remote affects all masters
 - A control change at a master only affects the dimmer where the change is made

Applications:

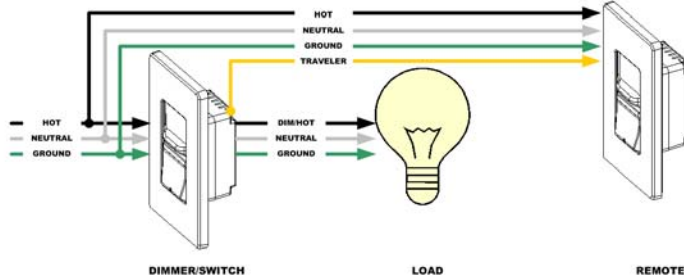
- Traditional 3-way applications
- 4-way, 5-way applications
- Fixed-scene systems (preset-masters mounted in closet, remote switches only in user spaces)
- Multi-location dimming – dim from remote locations too
- Multiple entrances into same space

Consider the wiring diagrams on the following page showing common configurations.

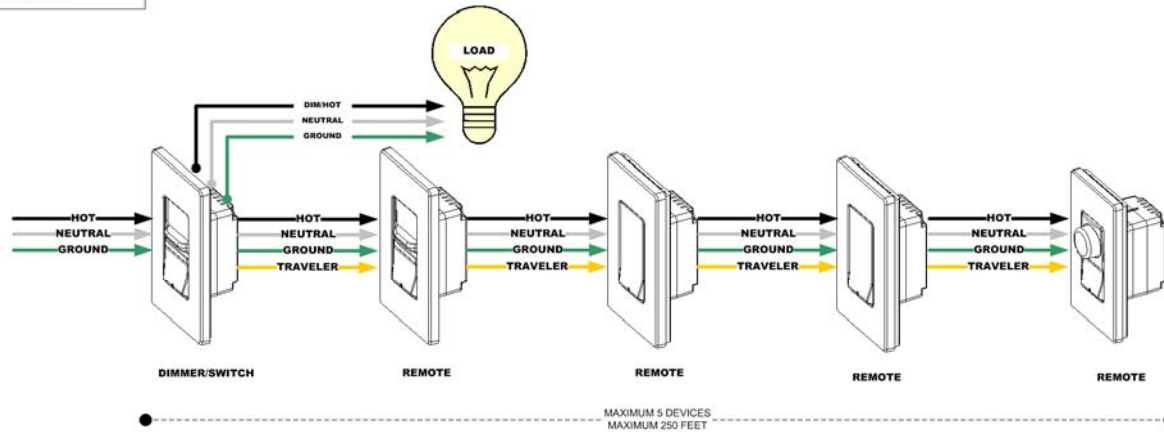
LOAD AFTER DIMMER & REMOTE



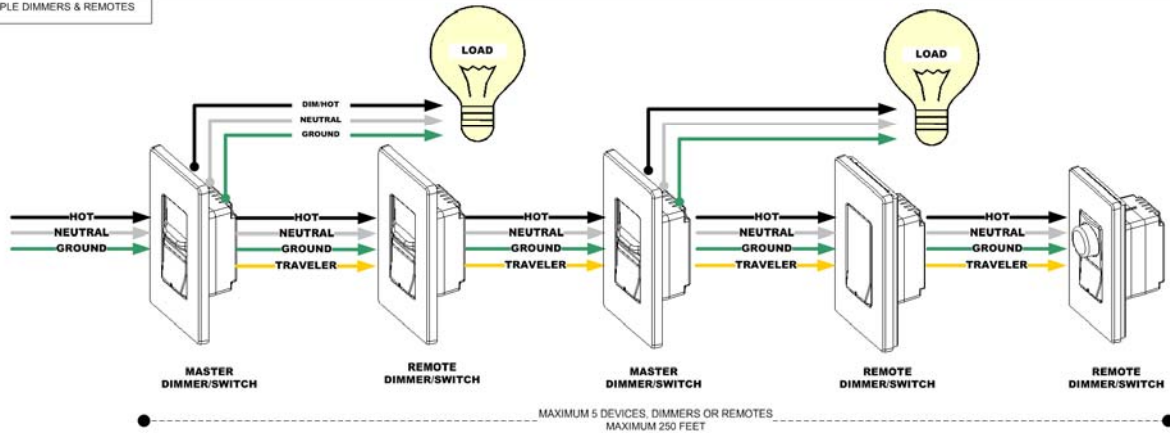
LOAD IN BETWEEN DIMMER & REMOTE



MULTIPLE REMOTES



MULTIPLE DIMMERS & REMOTES



Contact: If you have any questions or concerns, please call LMS technical support at (800) 959-6004.

Leviton Mfg. Co., Inc. Lighting Management Systems

20497 SW Teton Avenue, Tualatin, OR 97062 1-800-736-6682 Tech Line: 1-800-959-6004 Fax: 503-404-5594 www.leviton.com/lms
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