0-10V Relay Dimming™

LED Troffer Dimming Solution
No Wireless RF, No PLC, No Wi-Fi

0-10V Receiving Module™

Perfect for LED Retrofits
Title 24 Requires Dimming
No need to run 0-10V Low Voltage Wires
No Programming - No Commissioning
Module Installs in 30 seconds

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Patent Pending
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PCT/US17/17562
62541762

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Add dimming as required by California Title 24 to LED Troffer installations at the lowest cost in parts and labor.

The Problem: Over the next 10 years almost all office lighting will transition to LED both in new and retrofit installations. Installers and designers need a method to change the illumination level of LED troffer fixtures that is easy to install, works well, dims and brightens smoothly, and doesn’t suffer from flickering at low illumination levels.

The Solution: Powerline Control Systems, Inc. has patented a new method called Relay Dimming that offers many advantages. Relay Dimming uses the standard mechanical relay in wall switches or occupancy sensors to send messages to our simple low-cost receiver modules installed in any standard LED fixture with a 0-10V driver. Functioning together, smooth dimming to any level is easily achieved.

0-10V Dimmer and Keypad

**FEATURES AND BENEFITS:**
- Full featured dimming
- Dimmer has four pre-set single and double tap levels, 100%, 50%, 10%, Off
- Keypad has five preset levels 100%, 50%, 20%, 10%, Off
- Preset levels in switch and keypad may be adjusted to suit user preferences
- No new wires means a 2-person job is now a 1-person job
- Bid the job without investigating wiring complexity
- No programming or commissioning needed - operates right after install
- Parts cost equal to the older, less functional method of using a low-voltage switch
- Switch (stand-alone version) has occupancy sensor input if needed
- Switch has 3-way (traveler) control possible with available remote-switches
- The easiest least-expensive way to meet Title 24 dimming requirement
- Win retrofit and new install jobs with less effort and better function

0-10V Receiver Module

**FEATURES AND BENEFITS:**
- Needs no low-voltage control wires between control point and fixture
- Utilizes PCS patented “relay” communication, no PLC, no RF wireless, no Wi-Fi
- Fast install – receiver module installs in fixture in less than 30 seconds
- No commissioning, programming or addressing
- Dimmer can only control receivers on its own controlled power circuit
- Requires no mounting, just connect the four wires, L, N, Dim+, Dim-