# Part 1. Wireless Phase Adaptive Dimmer

* 1. WIRELESS CONTROLLER
     1. Phase Dimmer
        1. The Lighting Controller shall be the Echoflex ER6CD Series Phase Adaptive Dimmer by Echoflex Solutions Inc., or approved equal
        2. Mechanical
           1. The Controller shall mount to a ½” electrical junction box knock out using the threaded nipple and retaining nut
           2. The Controller shall have learn and clear buttons for manual linking of stations and sensors

The buttons shall be accessible when the Controller is mounted

* + - * 1. The Controller shall have two LED indicators to display power/operational mode and linked status.
        2. The Controller shall be UL2043 plenum rated
      1. Electrical
         1. The Controller shall be available in a 120 or 277 VAC, 60 Hz configuration.
         2. The Controller shall provide fully rated dimming at 600W at 120 or 277 VAC
         3. The Controller shall support forward or reverse phase dimming for tungsten, 2 wire fluorescent ballasts, line voltage LED or electronic LV transformer loads (120 VAC only)
         4. The Controller shall use a 902 MHz EnOcean radio. Systems that use other radio frequencies shall not be acceptable
         5. The internal radio shall have a range of at least 80 feet through walls (laterally), up to 300 feet in open space
         6. The Controller shall be ETL listed, conform to UL 508, and certified to CAN/CSA Standard C22.2 No.14
         7. The Controller shall comply with FCC Part 15.231 and IC RSS-210
      2. Functional
         1. The Controller shall provide dimming control for an individual light fixture or lighting zone
         2. The Controller shall provide ability to sense forward or reverse phase loads and adjust automatically. Controllers that require manual or software means of changing the dimming phase are not acceptable

##### The Controller shall support wireless Echoflex switches and sensors for dimming control

###### The Controller shall support linking of at least 20 wireless devices in any combination of Echoflex stations and sensors. Systems that do not support at least 20 stations or sensors shall not be acceptable

##### The Controller shall provide the option of single or dual-hop wireless signal repeating to other controllers. Systems that do not provide signal repeating shall not be acceptable

##### The Controller shall support Central Command functions for use with integrated control systems

##### The Controller shall support commissioning and linking through software and/or mechanical means. Controllers that do not support both shall not be acceptable

##### The Controller shall provide configuration variables that allow customization of the controllers operation with linked sensors and switches

##### The Controller shall provide the option of reporting relay status wirelessly

##### The Controller shall save all configuration settings and linked device details in non-volatile memory

###### The Controller shall provide the option of saving user-defined configuration settings as recoverable default settings

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