

TEC8112 ARCHITECTURAL DIMMER INSTRUCTIONS

GENERAL DESCRIPTION

Architectural series TEC8112 dimmers are single phase, modular remotely controlled dimmers suitable for dimming incandescent lighting loads and low-voltage transformer type loads. For fluorescent loads contact your representative, we have separate dimmers designed specifically for this type of loads. Dimmer models are rated at 15 amp (1440 watts), 20 amp (1920 watts), 30 amp (2880 watts) and 40 amp (3840 watts), 20% de-rating has been applied to power figures. For low-voltage transformer type loads these figures should be de-rated another 20%. Secondary breakers are NOT on the 15 amp model, other models can have up to four secondary breakers, standard are 15 amp, or 20 amp optional. A universal, plug-in control card allows the dimmer to be operated from a variety of control systems and fire alarm override

CALIBRATION

Dimmers are shipped fully calibrated with UP and DOWN fade times set at about 5 seconds (full time travel), Preset #3 is set at 100%, #2 is set at 50% and #1 is set at 20%. If notified in advance, calibration can be tailored to suit at the factory. There are only 5 (five) calibration adjustments that can be made. (Presets & Timing) The minimum and maximum adjustments should NOT normally be tampered with. Consult the factory before these are touched.

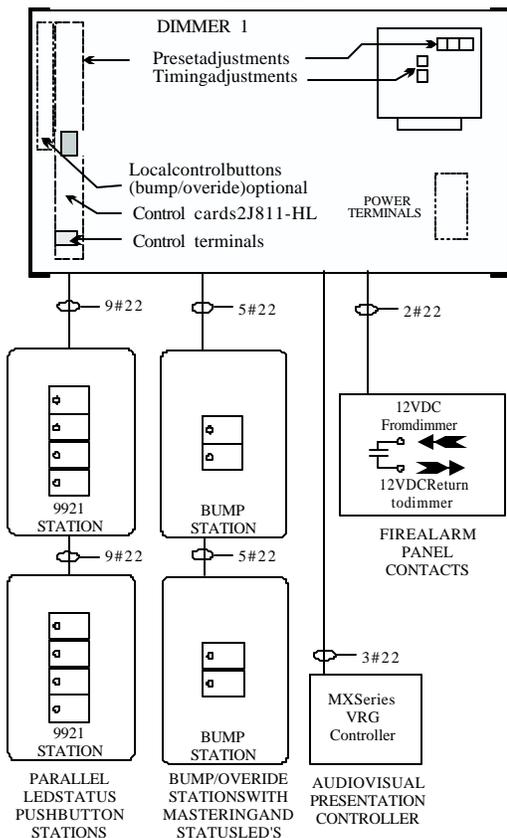
The fastest way of changing presets, is to first set the fade timing to minimum (fully counter clockwise). Presets can be selected at the dimmer by momentarily shorting (COM) to the appropriate terminals (P3, P2, P1 & DN). This saves time by not having to go to the remote control station each time while making adjustments. Dimmer equipped with the (Bump/Override) feature incorporate a control station in the dimmer which is handy when making these adjustments. Once the preset levels have been established, the fade times can be reintroduced. The "UP" fade time governs the majority of transitions (fading) between presets. The "DOWN" fade time

CONTROL TESTING

Because of the wide variety of remote control the dimmer can accommodate, it is difficult to describe a single testing procedure. For complex systems a factory trained technician usually performs this function as part of the contract (if specified). For less complex systems the electrician can go through each remote control device to verify that it has the desired effect. Each slider should be should faded dimmers in proportion to the individual slider settings. With preset type controls, a maximum of 10 stations may be connected in parallel. The LED indicators on ALL stations will show the active status. If locked in one preset, the control wiring may have a line (wire) shorted to ground or to another wire.

Disconnect stations in the line until the problem is identified.

Typical controls



Optional Bump/Override card functions and jumper settings

Optional Bump/Override board jumpers DN, P1, P2 & P3. These jumpers when removed disable the related preset line to the automation system from disabling the bump state. At least one of these jumpers must be present. Selecting the same jumpers as the lines used to control the dimmer from the automation will allow the automation to automatically cancel the bump state.

NS Jumper, "N" is for normal mode. In this mode any preset button or preset line from the automation system can disable the bump state (subject to the restrictions set by the programming jumpers noted above.

NS Jumper, "S" is for service mode. (external jumper) In this mode no preset buttons or preset lines from the automation system will disable the bump mode. This is useful for debugging the automation system while keeping the lights on for other work.

The additional terminals on the bump board are for connecting additional bump stations. Each bump station has 2 buttons (ON & OFF) with LED status indicators.

Remember to always return the NS jumper to the "N" normal state after changing it for service condition.