

# PLC DRIVEN LIGHT DEVICES

User Interface & Displays for Allen-Bradley or Siemens PLCs



## Overview

Light-directed technologies, often called Pick-to-Light, have been used successfully in warehouse distribution centers and in manufacturing automation on factory shop floors. Hundreds of thousands of Lightning Pick modules have been implemented worldwide.

Lightning Pick's vast array of lights and displays are available for users of Rockwell's Allen-Bradley ControlLogix and CompactLogix, as well as Siemens PLCs. It's a simple and cost effective solution to manual picking/putting operations, with easy troubleshooting and expansion.

PLCs utilize our Ethernet junction box which drives the network of light module devices. Alternately, a DeviceNet Gateway Controller is available for direct interface of up to 64 light/display devices.

## Applications

Some examples of applications include assembly line error-proofing, remote operator stations, kit picking, sequential assembly, test stands and automated sortation chutes/chute annotation.

## Light & Display Options

- ▶ All Lightning Pick modules are supported, including numeric displays with lights, indicator-only lights (without numeric displays) and our 12 character message display
- ▶ Up to 7 selectable colors and various specialized actuators
- ▶ Each device is individually addressable and includes built-in capabilities to beep, flash change status when the button is pushed
- ▶ Installs easily without special tools
- ▶ Works with modular rack systems
- ▶ All functions are set utilizing our documented socket messaging schema



# PLC Driven Light & Display Devices

## Using Ethernet Controllers & Junction Boxes

The PLC controls the light/display devices directly, without an interfacing computer, utilizing Ethernet controllers and junction boxes. There are two options of Ethernet networks, based on system size and the number of lights:

1. Ethernet controller (EJB TW2209) can support up to 32 junction boxes (JB TW2210), each of which can support 160 light/display devices. Therefore, one Ethernet controller can connect over 5000 devices.
2. For smaller systems, a mini-controller (EJB TW2271) is available. Each of these controllers can support a single channel of approximately 20 devices.



## Using Gateway Controllers

Each DeviceNet gateway controller can support 64 light/display devices on 2 channels (32 lights per channel). Additional gateways can be added up to the limits of the DeviceNet network standards.



Let's talk about your application.

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