

There are many variations of the circuits used with Model Railroads for signalling, detection, and positioning. I keep a few boards pre-built for the more common designs, ready to ship.

The SLC design uses modified Twin-T as the *standard* detection method. Parts are in the package. As are required parts for using a “broken beam” for detection. And a few steering diodes for use with common cathode LEDs.

Most circuits are packaged *as they are ordered* so they will contain the correct parts and drawings for a specific application. It is often the case where a modeler desires a combination of circuits best suited to *their* installation. Tell me what you want to accomplish and I **compile the package to order**.

SLC signal boards are required for three or more aspects. For two aspect signalling use, I still recommend the **SLC** because it permits extending and expanding the system functions at a later time with no requirement for more advanced controllers.

For signalling, specialty components used to accommodate “non-contact” detection are available. The circuits presented have been tested and are in use with these components and are known to function as designed.

There are many options for detecting on DCC equipped layouts. The choices I have provided for include modified Twin-T with relay isolation, current transducers(CTs), and ambient light photo-optical. These methods may be mixed block to block; the SLC provides interfacing into the signal logic.

For utility circuits the LBO board is used. Some of the more advanced signalling methods may require an LBO in addition to the SLC. Such as multi-point “photo-optical” detection and “servos” for operating semaphore signals. In many cases, one LBO will integrate into multiple blocks, such as the power controller for Approach Lighting.

Assembly of the circuits is not difficult. Basic soldering skills however are required. Aero-space quality is not necessary but there is a limit to what the small components can take. Most boards returned for repairs involve faulty soldering with a *very few* incorrectly assembled.

Bill Hudson NMRA 2125

PRICING

(Parentheses indicate per unit price in lots of five(5))

Bare Circuit Boards, no components (documentation on-line) \$12 (\$10)
 SLC Signal Logic Controller
 LBO Latch, Bridge, Oscillator Utility board

Parts for DIY assembly (Except servo circuits) \$22 (\$20)
 (Kits include circuit boards)

Parts for DIY assembly of Servo Circuits \$35 (\$30)
 (LBO parts include Servo(s) and Boards)

Assembly and Testing (per board) \$15 (\$10)
 (power on testing in a fixture, with known conditions)

Specialty parts provided or installed to order ask

Example: SLC with CT on the board (available hand wired A&T only, see manual)
 SLC Kit: \$22 Assembly: \$15 Specialty parts: \$5

Installation and Technical Manual

The text portion is available at **no cost** “on line”. Including the basic diagrams required for assembly and installation. Over 100 pages if both SLC and LBO manuals are down-loaded. Printed instructions for using individual boards are also included with circuit board orders.

A drawing package is available in printable format that contains the circuits in schematic form. Understand, this package embraces over forty years experience in the field and includes the intellectual content behind the designs. It is priced accordingly...

Drawing Package (Printed, Bound, Postage paid) \$30

Drawing package (eMail in PDF format, letter sized) \$15

Shipping (USPS “Flat Rate”, per package) \$5
 Five of most anything will fit a single box
 International rate varies from \$15 upward; please Ask
 (No restricted technology, components or boards)

NMRA Members,

please include your NMRA number. The price break is not a fixed percentage but I do discount to the organization where I can; sometimes 10%(+), sometimes only free shipping.

Individual parts

are available as *convenience* stock. The price will include time and effort to dig pieces out of bulk containers. Most of the parts are standard electronics devices and should be available most anywhere at reasonable cost. Tell me what you need and I’ll price it out on an individual basis.

Orders

eMail Orders to: **signals@hudsontelcom.com**

Snail Mail Orders: Signal Aspect
 P. O. Box 101832
 Irondale, Ala 35210

PAYPAL account: **bhudson@hudsontelcom.com**
Money Orders to: **Bill Hudson**