

# Glossary L

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## Latching

Latching can apply to both mechanical devices and electronic circuits. An example of mechanical latching would be a push on / push off switch, [see here](#). See also description of a [latching relay](#). (e.g. [relay](#))

An example of an electronic latch would be a [flip-flop](#) or bistable circuit.

A standard relay may be made self latching by supplying a current path for the coil through one of its normally open contact sets.

## Layout Command Control

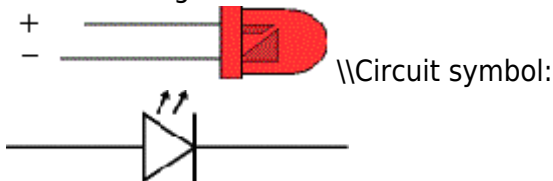
[Layout Command Control](#) (LCC) is a system for controlling all the functions on your layout that don't  have to do with how fast the locomotive is moving – things like signals, or sounds, or passenger car lighting. LCC is NMRANet, just under a different name. LCC is designed as a separate, generic control bus which is positioned to take the load off your throttle bus. It is a bi-directional data bus that can send and receive data. Since it is an NMRA Standard, you are not confined to one manufacturer's products. Any manufacturer can make LCC compatible devices.

## Lead free

This is a change in the content of solder. Lead free solder is generally recommended due to Health and Safety considerations, but 60:40 tin:lead is preferred for electronic kits and is still available from suppliers such as Rapid Electronics.

## LED

Light Emitting Diodes (LEDs) emit light when an electric current passes through them. The longest leg is the +ve leg which is also called the anode (not as in the picture)



[https://www.merg.org.uk/merg\\_resources/led.php](https://www.merg.org.uk/merg_resources/led.php)

<http://electronicsclub.info/leds.htm>

## LENZ

A German [DCC](#) system and decoder manufacturer.

## LiFo

Last in First out, data buffer where the most recent entry is the first to be retrieved. Commonly referred to as a 'Stack' it is used to save the return address (Program Counter) and other data that must be restored when a Sub Routine terminates.

## Lighting decoder

A [DCC](#) decoder made especially for lights for a loco or carriages.

## Logic

In a model railway it is a way to do step by step sequence to make the train do what you require.

[W](#) [Logic](#)

[Logic Gates](#)

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