

## Track Tester

DC & DCC O & G Gauge OO HO N Gauge



- Quickly checks track for power faults
- Small & Larger Versions - for N gauge to G gauge!
- Multicolour LED Indicates the DC polarity, or DCC, or a fault

## Buffer Lights

WIRE FREE DC & DCC O Gauge OO HO N Gauge



- Realistic stop light for any siding - fits most buffer stops
- Simply clips onto track - No wires!
- On DCC both lights are on constantly
- On DC one light is on & varies with speed

## DCC Fitted Digital Signals

DCC WIRE FREE OO HO



- Signal with DCC decoder built in - No CV programming
- Easy to fit and use - can just plug direct into track - no wires!
- Wide range available - also available with Feathers and Theatres

## One-Touch DCC™ Point Controllers

DCC ANY GAUGE



- Control points and uncouplers using DCC
- Work with most solenoid point motors - Built in CDU
- Just connect 2 wires to DCC rails - No CV Programming!
- Easy screw terminals - no soldering

## LFX Lighting Effect Controllers

DC & DCC ANY GAUGE



- Easy way to add lighting effects to your layout
- Wires screw in - no resistors or soldering - LEDs included
- Powered by 9v battery, 8-16V DC or DCC
- On DC the effect is on when powered - On DCC it can be controlled

## Level Crossing - Ready Assembled

DC & DCC OO HO N Gauge



- Power from 9-16v DC, DCC or a 9v battery - available in single & pairs
- Light and sound - all connections easy push fit
- Includes 2 x Peco static level crossing barriers
- Can be turned on automatically using a Track Sensor

## Traffic Lights - Ready Assembled

DC & DCC OO HO



- Power from 9-16v DC, DCC or 9v battery - 2 Wire connection
- Realistic standard UK sequence and timing varies randomly
- Fully assembled - drill hole in baseboard & connect to power

## Track Sensor

DC & DCC OO HO N Gauge



- Trigger level crossings and change semaphore signals
- Power from 12-16v smooth DC or DCC
- Can be used to trigger Sound Track, Smart Screen, Relays
- Four outputs for direct connection to LEDs for occupancy, FX

## Mimic Switches & Lights

DC & DCC ANY GAUGE

- Make a mimic panel to control Layout Link items - Single wire to control
- Link to Track Sensors or Sensor Signals and LEDs show occupancy & signal status
- Link to Sensor Signals to manually override and switch route indicators on/off

## Smart Lights - Easy to fit Lighting Effects

DC & DCC ANY GAUGE



- Small - Just 1cm x 1cm x 0.3cm with 2 wires
- Power by 9-16v DC, 9v battery, or direct to DCC which can control some effects
- Just connect and go - no setting up required
- Disco / Emergency / Real Fire / TV / Welding / Random / Programmable

## Automatic Tail, Firebox & Loco Lights

DC & DCC AUTO WIRE FREE ANY GAUGE



- No switch - senses motion & turns on!
- Turns off automatically 4 minutes after stopping
- No pickups, wires or soldering - LED just plugs in
- Fit in brake vans, coaches, loco, wagons etc
- Runs for ages on 2032 button battery - LEDs & battery included

## Sound for your layout

DC & DCC AUTO WIRE FREE ANY GAUGE

### SFX Sound

- Sound capsule with no wires - runs from a battery - built in speaker
- No connections to track so work with both DC & DCC
- Motion activated - switches on when train moves! Real Sounds!
- Tiny - 25mm x 20mm x 12mm - N gauge fitting guide available

### Sound Track

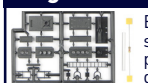
- Record your own sounds and play them back on your layout!
- Record 4 tracks upto 35 seconds each - Lock to protect favourites
- Portable - use with 9v battery to take out & record sounds
- Power from DC or DCC - Use Track Sensors or DCC to trigger sounds

### Scenic Sounds

- Background sounds for your layout - built in speaker & volume
- Power from DC or DCC - on DCC sounds can be triggered
- Lineside • Station Steam • Station Modern • Urban • Rural

## Signal Kits

DC & DCC OO HO



- Every kit includes the signal head, aluminium post & base plus detailing kit

- Low cost - adapt to your own design
- Control by switches or signal controller
- LEDs are prefitted to a narrow PCB
- Ground signals - modern & original
- Feather & Theatre kits available
- Signal Head only for gantries etc

### MS2 - Mimic Switch



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## Signal Controllers

DC & DCC AUTO ANY GAUGE

- **DCC Signal Controllers** - Wire in any LED signals to control from DCC accessory address
- **Automatic Signal Controllers** - Make any LED signal kit into an Automatic Signal!
- **Dapol Semaphore Controllers** - Control Dapol Semaphores by DCC or automatically

## Automatic Sensor Signals

WIRE FREE DC & DCC OO HO



- Detects train and changes signal automatically to red
- Used own & signal changes back to green after train short time
- Or link to other Sensor Signals for fully automatic block signalling
- Can be used on both DC & DCC - Feather & Theatre versions

## Automatic Coach Lighting

DC & DCC AUTO WIRE FREE OO HO N Gauge



- Easy to fit - no wiring or switch - senses motion & turns on!
- Turns off automatically - fits most coaches - may be cut down
- No pickups or wires so works on regular DC & DCC
- Traditional warm white or modern cool white
- Also with tail light, sparking, door beeps and door light effects

## Servo Controller

DC & DCC ANY GAUGE

- Controls standard radio control servo from DCC, Track Sensor or Mimic switch
- Ideal for animating Level Crossing barriers / gates, Slow points or signals, Coal hopper
- Easy to wire and set up - connects directly to DCC or 8-16 volts smooth DC supply

## Relay Controller

DC & DCC ANY GAUGE

- Two channel Relay unit which can be controlled by Track Sensor, Sensor Signal or DCC
- Enables remote control of motors, solenoids, lamps etc
- Incorporates two heavy duty relays with changeover contacts rated at 8-24 volts at 3 A

## Automatic Train Control

DC & DCC ANY GAUGE

- Link Sensor Signals to Relay Controller for automatic trains which stop at red lights!
- Can be used on DC or DCC Layouts
- Easy wiring: Sensor Signal link with one wire and Isolated braking section two wires.
- Also supports ABC fitted DCC Loco's for gradual slow down and speed up with sound

## Tools, LEDs & Accessories

ANY GAUGE

- We offer a range of LED packs, battery holders, wire, switches & terminals
- Also handy modelling tools including precision cutters, drill bits & spare batteries

## Smart Screen

DC & DCC OO HO



- Real working animated screen - customise with your messages
- Use DCC to program - then can be run on DC or DCC
- Trigger messages with DCC, switches, track sensors or just cycle
- Message can change with direction of train on both DC & DCC
- Display upto 10 different messages - can also show real time clock
- Range of enclosure available - Programming service available
- Small - w 31mm x h 9.5mm x d 4.5mm
- Stationary top line - bottom line automatically scrolls

SEE [WWW.TRAIN-TECH.COM](http://WWW.TRAIN-TECH.COM) OR ASK FOR FREE COLOUR BROCHURE



**Train-Tech**  
Model Technology Made Easy

## MS2 Mimic Switch-Pushbutton type

- Layout Link Multi-function Switch & Light unit
- Sensor Signal: Override & Route control
- Sensor Signal: Signal colour & train occupancy
- Level Crossing control and lights display
- Train occupancy display for the Track Sensor

[www.Train-Tech.com](http://www.Train-Tech.com)

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## MS2 - Mimic Switch - Pushbutton type

**CAUTION - ALWAYS SWITCH OFF ALL POWER TO YOUR LAYOUT BEFORE CONNECTING UP THIS OR SIMILAR PRODUCTS!**

The Mimic switch can be connected to many other Layout Link compatible accessories to both control and monitor their operation. Below shows Mimic basics for mounting and wiring but more information will be supplied with the Layout Link accessory being controlled.

### Mimic features

A mimic diagram is a plan of a layout and real life signal boxes use Mimic diagrams to monitor and control the real railway. Mimics can be linked to Layout Link accessories with just one wire and used to show the following on a mimic plan:

#### Sensor Signals

A Mimic Light or Switch can be used with a Sensor Signal to display the signal colour, train position & block occupancy. A Mimic Switch can also turn on and off a feather or theatre route indicator or manually override a sensor signal to red.

#### Track Sensor

A Mimic Light or Switch can be used with a Track Sensor to display train position & block occupancy if linked with other Track Sensors or Sensor Signals.

#### Level Crossing

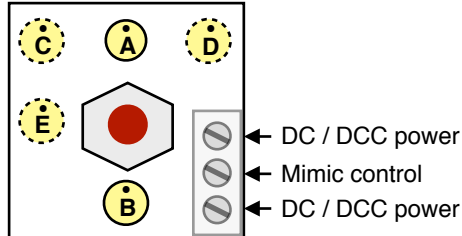
A Mimic Light or Switch can be used with a LC10 Level Crossing to mimic the amber and flashing LEDs on the crossing. A Mimic Switch can also control the Level crossing switch the light sequence and sounds on and off.

*The Mimic Switch will also work with other future Layout Link products.*

**!! Only connect accessories with all power switched OFF and never let any wires etc touch other components!!**

### Mimic connections and LEDs

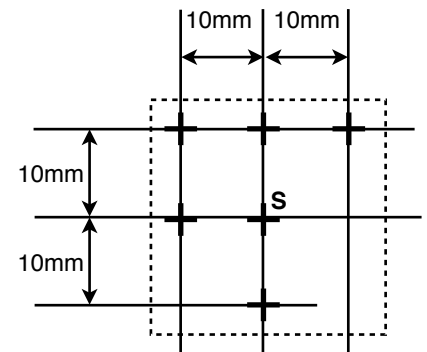
Mimics only need three connections, two for power & one to connect to the accessory being controlled. Power can be 12-16 volts smooth DC or DCC but it *must* be connected to the same power supply as the accessory being controlled.



The drawing shows 5 LEDs A-E, although sockets are only fitted for A and B as these are the main LEDs - your accessory instructions will explain functions of these and any other LEDs if applicable. If you wish to fit other LEDs they can either be soldered or fitted in SIL sockets (CON8). Mimics are supplied with a Red/Green Bicolour LED in socket A and a White LED in socket B. The longest wire of each LED should be plugged into the top socket hole marked •. LED wires can be shortened with a pair of wire cutters - if an LED does not light the correct colour (Bi-colour) or light at all try it the opposite way around.

### Drilling Template for a Mimic

Mimics can be mounted into a panel and the following drawing should help you measure and drill holes for the switch and LED(s) which are on a 10mm pitch



#### Hole sizes:

Hole **S** is for the switch and a 7mm clearance hole should be ideal. Note the MS2 Pushbutton is slightly offset.

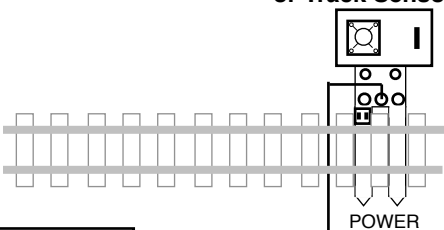
The remaining holes are for LEDs and should be drilled to suit the ones used. Note that normally only 1 or 2 LEDs are actually fitted so check the instructions for the Layout Link accessory you are controlling before drilling.

Mimics are supplied with 3mm diameter LEDs but 5mm and others are available.

### Use with Sensor Signal/Track Sensor

Mimics can display train position & Block occupancy on Sensor Signals or Track Sensors. Link the centre socket of the Sensor Signal or Track Sensor to the centre terminal of the Mimic as below.

#### Sensor Signal or Track Sensor



This LED flashes when a train goes past and if linked to other sensors stays on whilst the train is in a block.

#### POWER

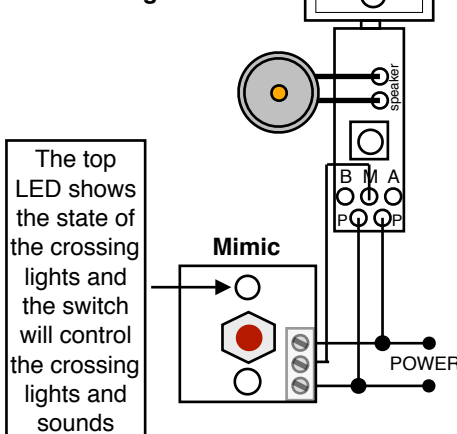
Power both the track sensor and Mimic Switch or Light from *same* supply; either DCC from the track or wire to 12-16V DC

### Using a Mimic with a Level Crossing

The Mimic will control a LC10/LCN10 level crossing and will also mimic the operation of the amber and red LEDs.

Connect centre socket 'M' of the Level Crossing light to the centre terminal of the Mimic and power together.

#### Level crossing lights & sound



The top LED shows the state of the crossing lights and the switch will control the crossing lights and sounds

#### POWER

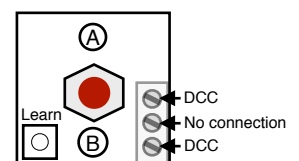
Power both the level crossing and Mimic Switch or Light from *same* supply; either DCC from the track or wire to 12-16V DC

### Using a Mimic as a DCC display

As well as controlling Layout Link accessories, Mimic Switches or Lights can also be used as a DCC decoder and can be set to the same address as a DCC accessory to display their status on a Mimic panel, (eg the point position).

A DCC accessory address has 2 'states'. The Mimic has four LED options to show the state at that address:

- One single colour LED in position A or B which shows on or off
- Two single colour LEDs in position A & B which each show opposing on or off
- One Bi-colour LED in position A or B which shows one colour or the other
- Two Bi-colour LEDs in positions A & B which show opposing colours (eg one shows red the other green, vice versa)



#### Setting up address - One Touch DCC

- Set your controller to the same DCC accessory address as the accessory you want to mimic (eg a DCC point)
  - Press the Learn button on the Mimic
  - Send a command from your controller (usually a direction < / > or 1 / 2)
- Your Mimic will now respond and show the status of the address you have set.