

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

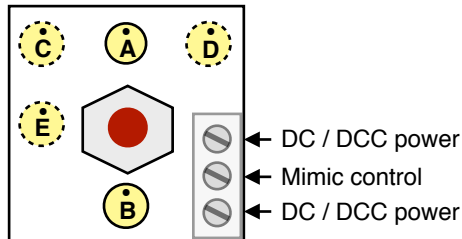
A Mimic Light or Switch can be used with a LC10 Level Crossing to mimic the amber and flashing LEDs on the crossing. A Mimic Switch can also control the Level crossing switch the light sequence and sounds on and off.

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

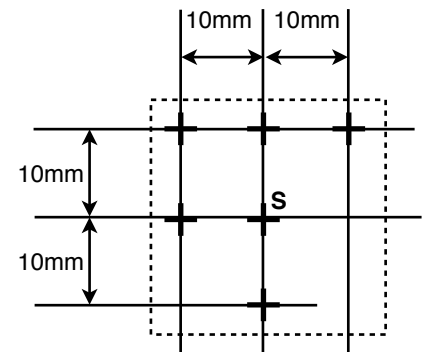
Mimics only need three connections, two for power & one to connect to the accessory being controlled. Power can be 12-16 volts smooth DC or DCC but it *must* be connected to the same power supply as the accessory being controlled.



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.

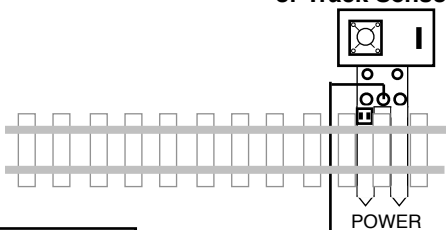
The remaining holes are for LEDs and should be drilled to suit the ones used. Note that normally only 1 or 2 LEDs are actually fitted so check the instructions for the Layout Link accessory you are controlling before drilling.

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

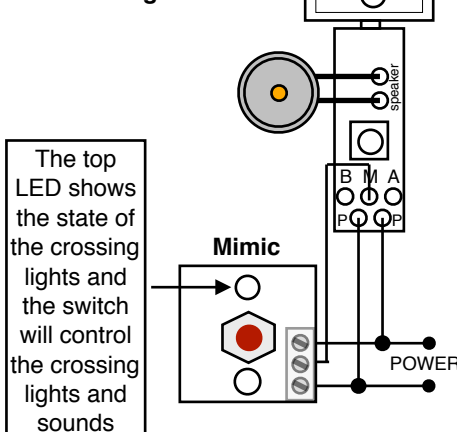
Power both the track sensor and Mimic Switch or Light from *same* supply; either DCC from the track or wire to 12-16V DC

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

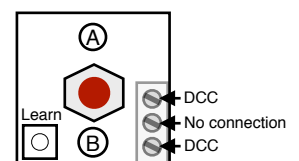
Power both the level crossing and Mimic Switch or Light from *same* supply; either DCC from the track or wire to 12-16V DC

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.

Track Tester

DC & DCC OO HO N

Only £5



- Quickly tests track for power faults
- Low cost and easy to use
- Works on N, TT, OO or HO Track
- Indicates the DC polarity, or DCC, or a fault
- Small enough to check point frogs

TT1 Track Tester

Track not included

Buffer Lights

DC & DCC WIRE FREE OO HO N



Track and buffer stop not included

- Add realistic stop light to any siding
 - Simply clips onto track – No wires!
 - Fits next to most buffer stops & kits
 - Or at platform end or free standing
 - On DCC both lights are on constantly
 - On DC one light is on & varies with speed
- BL1 OO/HO gauge Buffer Light**
BL2 N gauge Buffer Light

One-Touch DCC™ Digital Signals

DCC WIRE FREE OO HO



DS6/7



DS1/2

Track not included

- Signal with DCC decoder built into base
- Can just plug direct into track – no wires!
- Easy to fit and use – no CV programming!
- Can sync to other signals & points

- DS1 Home:** Red (R) and Green (G)
DS2 Distant: Yellow (Y) and Green (G)
DS3 Home Distant: (R) (Y) (G)
DS4 Distant: (Y) (G) (Y)
DS5 Outer Distant: (R) (Y) (G) (Y)
DS5HS Outer Dist: (R) (Y) (G) (Y) (High Speed mainline)
DS6 Dual Head Home: (R) (G)
DS7 Dual Head Distant: (Y) (G)
DS8 Stop-Caution: Red (R) and Yellow (Y)

One-Touch DCC™ Point Controllers

DCC OO HO N Z



PC1

Point motor and track not included



PC2

- Control points and uncouplers using DCC
- Easy to use – No CV programming!
- Work with most solenoid point motors
- Just connect 2 wires to nearby DCC rails
- Easy screw terminals – no soldering
- Built in CDU for efficient operation
- Can sync to other points & signals

PC1 DCC Single Point Controller
PC2 DCC Quad Points Controller

LFX Lighting Effect Controllers

DC & DCC ANY GAUGE



- Easily add lighting effects to your layout
- LEDs screw in – no resistors or soldering
- Powered by 9v battery, 12-16V DC or DCC
- On DC the effect is on when powered
- On DCC the effect can be controlled
- Effects LEDs are included

LFX1 Level Crossing Barrier

Lights a sequence of steady amber and then flashing red LEDs as seen at crossings

LFX2 Home & Shop Lighting

Randomly controls lights in houses, shops, stations, pubs

LFX3 Traffic Lights

Controls one pair of timed traffic lights (TL1 Traffic light kit also available)

LFX4 Log or Camp Fires

A realistic fire effect using amber, yellow, red LEDs

LFX5 Welding effects

Realistic electric arc welding effects with bright LEDs

LFX6 Quad LED Lighting Controller (DCC Only)

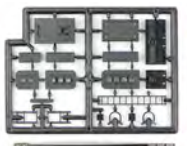
Controls 4 sets of LEDs on and off using separate DCC addresses. Directly powers 4 LEDs per output

LFX7 Flashing effects

Simulates four flashing effects; belisha beacons, emergency services, camera flash, lightning, sparks

Self Assembly Colour Light Signal Kits

DC & DCC OO HO



Every kit includes the signal head, aluminium post and base plus detailing kit inc ladder, handrails

General purpose signal kit - no LEDs:

SK1 Basic kit 2/3/4 aspect & dual heads

Signal kits with LEDs and resistors

SK2 Home 2 aspect kit Red (R) Green (G)

SK3 Distant 2 aspect kit (Y) (G)

SK4 Home Distant 3 aspect kit (R) (Y) (G)

SK5 Distant 3 aspect kit (Y) (G) (Y)

SK6 Outer Distant 4 aspect (R) (Y) (G) (Y)

SK7 Dual head Home 2 aspect (R) (G)

SK8 Dual head Distant 2 aspect (Y) (G)

- Low cost – adapt to your own design
- Control by switches or a signal controller
- LEDs are pre-fitted to a narrow PCB

One-Touch DCC™ Signal Controllers

DCC ANY GAUGE



SC1



SC2

- Control LED & Semaphore signals by DCC
- Easy to set up & use – No CV programming!
- Easy screw terminals – no soldering
- Can sync to other points & signals

SC1 Dual 2 aspect colour light signals controller

Controls one or two 2 aspect colour light signals.

SC2 3 or 4 aspect or 2 aspect + route signal control

Controls one 3 aspect or one 4 aspect or one 2 aspect + route.

SC3 Dual Dapol OO/N Semaphore signal controller

Controls one or two standard OO or N Dapol motorised semaphore signals by DCC. Signals connect direct to the SC3 - no modifications or power supply needed.

Signals not included

Automatic Coach Lighting

DC & DCC Auto WIRE FREE OO HO



Rolling stock not included

- Easy to fit in seconds – no wiring!
- No switch – senses motion & turns on!
- Turns off automatically 4 minutes after stopping
- No pickups **so works on regular DC & DCC**
- Traditional warm white or modern cool white
- Also with tail light, sparks or door light effect
- Lights stay bright & constant with no flickering
- Fits most OO/HO coaches and maybe cut down

Coach Lighting Strips (including LEDs and battery):

- CL1:** Cool white for modern coaches with fluorescent or LED lighting
CL2: Warm white for traditional coaches simulating oil lamps or bulbs
CL21: Cool white plus modern flashing lantern LED tail light
CL22: Warm white plus flickering flame lantern LED tail light
CL23: Cool white plus bright electric spark arc effect LEDs
CL24: Cool white plus amber door lights which light after train stops

Automatic Tail, Firebox & Loco Lights

DC & DCC Auto WIRE FREE ANY GAUGE



Fits in N scale upwards

Rolling stock not included

- No switch – senses motion & turns on!
- Turns off automatically 4 minutes after stop
- No pickup, wires or soldering – LED plugs in
- Fit in brake vans, coaches, loco, wagons etc
- Runs for ages on small button battery

- Single output modules:**
AL1 Flashing Tail light
AL2 Flame Tail / Firebox
AL3 Constant lighting
LEDs & battery included
- Dual output modules:**
AL21 Flashing + constant
AL22 Flame + constant
AL23 Sparkarc + constant
AL24 Doors open + constant

SFX Sounds for Trains

WIRE FREE DC & DCC Auto



Each Capsule is supplied with battery, sound tube & fitting guide

SFX10: Steam Locomotive

SFX20: Diesel Locomotive

SFX30: Electric Power Locomotive

SFX50: Diesel Multiple Unit

SFX60: Electric Multiple Unit

SFX70: Shunting

SFX80: Passenger Coaches

See our website for more info & to hear the sounds

SEE WWW.TRAIN-TECH.COM OR CONTACT DCP 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

See our website, your local model shop or contact us for a free colour brochure
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