Model Technology Made Easy

NEW 2018/19 For Both Analogue DC and Digital DCC

Introducing New Products.....

Bring your railway to life!
Signal Basics
We are often asked for advice about signalling as it’s something many modellers would like to have on their layout yet sometimes do not feel they know enough about. So this is a very basic guide to signals which we hope may help and give you confidence to add some to your layout, although much more can be found online and in many books on the subject.

• Home and Distant signals
A Home signal is the main signal which locomotives normally have to stop at if they are at Danger (red), whereas a Distant signal is located some distance before the Home and indicates what state the Home signal is - if Home shows Danger the Distant shows Caution. The purpose of a Distant signal is to give train drivers plenty of time to slow down if the Home signal is at Danger and are usually seen on main lines. There are also signals called Outer Distant which can be seen on many high speed train lines and are installed before a Distant signal to give a driver more notice of the following signals to give them even more time to slow down in time to stop safely if the Home signal ahead is at Danger.

There are two main physical designs of signal in current use;
• Semaphore signals consist of mechanical arms which go up and down usually controlled by metal cables run by the side of the track via pulleys to a signal box. There are many variations, but UK outline semaphores mean Danger if horizontal and Clear if they are pointing upwards (upper quadrant) or pointing downwards (lower quadrant). Home signals have a red painted arm and Distant signal arms are yellow. Semaphores usually have red, green and yellow colour filters behind the side of the moving arm which are lit by a lamp from behind so that their status can be seen at night.

• Colour Light signals are made of a number of different colour electrically powered lights (called ‘Aspects’) which are connected to a signal box or control room by electrical wires. A red light means Danger and green means Clear. Distant signals are signified by a yellow light and there can be one or two yellow lights to show Distant or Outer Distant. There are also ground position signals usually used around stations and yards for shunting etc.

In addition to the main signalling explained above, signals can also have Route Indicators which tell the driver the route he will be going, usually set by points just beyond the indicator. There are many variations, but UK outline semaphores mean Danger if horizontal and Clear if they are pointing upwards (upper quadrant) or pointing downwards (lower quadrant). Home signals have a red painted arm and Distant signal arms are yellow. Semaphores usually have red, green and yellow colour filters behind the side of the moving arm which are lit by a lamp from behind so that their status can be seen at night.

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In addition to the main signalling explained above, signals can also have Route Indicators which tell the driver the route he will be going, usually set by points just beyond the indicator. There are many variations of Route Indicators, but the main ones are ‘Feathers’, which are illuminated bars mounted at angles on top of colour light signals and light up white to show direction of a route, and ‘Theatre’ displays, illuminated boxes which display numbers or symbols to indicate a drivers route or, for example, the platform number at a station.

• Automatic Signalling
Much of the real railway’s mainlines are now split into block sections and run on automatic signalling, where a signal turns red as soon as a train enters a block and remains red until that train has completely left that block, thereby preventing collisions within that block.

• Signalling your layout
As you will see on the following pages, Train-Tech designs and manufactures a wide range of Colour Light Signals and controllers for Semaphore signals, including signals controlled by traditional DC with a switch, by Digital DCC and our new Sensor Signals which work completely automatically just like the real thing and free up your time to sit back, run your trains and enjoy your layout watching the signals change as the trains run by....

Train-Tech Contents & Layout Link

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<td>27</td>
</tr>
</tbody>
</table>

LayoutLink Train-Tech believes that technology should make life better and easier, not more complicated.....

Layout Link is an easy new way of connecting lots of signals, points and accessories together with just a single wire! And whether you run regular analogue DC or digital DCC it works just as well. So to link our new automatic sensor signals to each other you just need a single piece of wire plugged between them, and if you like another wire to link them to a mimic panel so that you can see what your signals are doing and where the train is on your layout.

Products which can be linked using Layout Link are shown with this symbol: ©
Sensor Signals - easy automatic signalling

Automatic signalling
Now you can add automatic signalling to your layout in seconds with new OO Sensor Signals! An infrared sensor is built into every signal to detect any train so there are no circuit boards etc. Just clip or wire the signal into your track for fully automatic 2, 3 or 4 aspect signalling which works just like the real railway! Best of all they can be powered from both analogue DC as well as digital DCC and are Layout Link compatible, so easy to link to other Sensor Signals or Mimic switches for control, signal and train position indication using just a single wire!

Quick and easy installation - everything is built into the Sensor Signal!

- Sensor Signal detects train and changes signal until the complete train is safely past
- When used alone signal sequences back to green a few seconds after the whole train has past
- When linked to other Sensor Signals they work together for fully automatic block signalling!
- Fully built ready to use signal with sensor built into the base - no other circuits or wires!
- Automatic feature can be overridden by a Mimic switch or DCC - a Semi Automatic signal.
- Link to a Mimic using one wire to show signal colour and train position on the control panel
- On Analogue DC - take two wires to a regular 12-16V smooth DC supply
- On Digital DCC - just slide in or wire straight to the track for automatic or DCC control
- Feathers & theatre indicators can be controlled by DCC or Mimic switch, and if your layout points are controlled by DCC give the route the same address to light them fully automatically.
- Kit of detailing extra’s included - ladder, handrail, phone etc.

To Power by DCC
Simply slide the signal into suitable track using the power clip holes.

To Power by DC or DCC
Cut off the fingers at the dotted lines and solder 2 wires to the base to power from DCC or a 12-16v smooth DC supply.

Left and Right Feather Route Indicators
Feathers can be controlled on DC and DCC by using a Mimic Switch or by DCC using any accessory address. They can be given the same DCC address as a point to light them automatically.

Theatre Indicator display
Theatres can be controlled by a Mimic Switch or by any DCC accessory address. It can display one user defined number, letter or character easily made on the 5 x 5 matrix by masking unwanted holes. (Note the theatre can only be switched on & off, not changed to show multiple characters)

Sensor Signals - Fully Automatic Signals

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS1L</td>
<td>2 Aspect Home</td>
<td>£40</td>
</tr>
<tr>
<td>SS1R</td>
<td>with Left Feather</td>
<td>£50</td>
</tr>
<tr>
<td>SS1T</td>
<td>with Theatre</td>
<td>£50</td>
</tr>
<tr>
<td>SS2L</td>
<td>2 Aspect Distant</td>
<td>£40</td>
</tr>
<tr>
<td>SS2R</td>
<td>with Left Feather</td>
<td>£50</td>
</tr>
<tr>
<td>SS2T</td>
<td>with Theatre</td>
<td>£50</td>
</tr>
<tr>
<td>SS3L</td>
<td>3 Aspect Home Distant</td>
<td>£43</td>
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<td>SS3R</td>
<td>with Left Feather</td>
<td>£53</td>
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<tr>
<td>SS3T</td>
<td>with Theatre</td>
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<tr>
<td>SS4L</td>
<td>3 Aspect Distant</td>
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<td>SS4R</td>
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<td>SS4T</td>
<td>with Theatre</td>
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</tr>
<tr>
<td>SS5L</td>
<td>4 Aspect Outer Distant</td>
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</tr>
<tr>
<td>SS5R</td>
<td>with Left Feather</td>
<td>£55</td>
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<tr>
<td>SS5T</td>
<td>with Theatre</td>
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</tr>
<tr>
<td>SS6L</td>
<td>Multi 3 Aspect Signal</td>
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</tr>
<tr>
<td>SS6R</td>
<td>Modern multicolour-see page 7</td>
<td>£53</td>
</tr>
<tr>
<td>SS7L</td>
<td>with Left Feather</td>
<td>£63</td>
</tr>
<tr>
<td>SS7R</td>
<td>with Right Feather</td>
<td>£63</td>
</tr>
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<td>SS8T</td>
<td>with Theatre</td>
<td>£63</td>
</tr>
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<td>SS9L</td>
<td>Multi 3 Aspect Signal</td>
<td>£63</td>
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<tr>
<td>SS9R</td>
<td>with Left Feather</td>
<td>£63</td>
</tr>
<tr>
<td>SS9T</td>
<td>with Right Feather</td>
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</tr>
<tr>
<td>SS10L</td>
<td>Multi 4 Aspect Signal</td>
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<td>SS10R</td>
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<td>SS10T</td>
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<td>SS10U</td>
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<td>SS10V</td>
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<td>SS11L</td>
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<tr>
<td>SS11R</td>
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</tr>
<tr>
<td>SS11T</td>
<td>with Left Feather</td>
<td>£70</td>
</tr>
<tr>
<td>SS11U</td>
<td>with Right Feather</td>
<td>£70</td>
</tr>
<tr>
<td>SS11V</td>
<td>with Theatre</td>
<td>£70</td>
</tr>
</tbody>
</table>

Sensor signals work exactly like the real railway where signals automatically turn red when a train enters a block section to prevent other trains from entering the same block and preceeding signals automatically change accordingly. All linked using just one wire.

Realistic lights fade between changes

All electronics built into the signal

Sensor signals work exactly like the real railway where signals automatically turn red when a train enters a block section to prevent other trains from entering the same block and preceeding signals automatically change accordingly. All linked using just one wire.

Scan to Watch the Video

A comprehensive instruction booklet is included with every Sensor Signal
DCC Colour Light Signals - easy, just plug in

Winner of Model Rail Innovation of the Year!

British outline signals with built-in DCC decoders which you can fit & use in literally seconds with our easy One Touch DCC™ technology - No CV programming!

- Ready to use OO/HO Signals with the DCC Decoder in the base
- Can clip directly into the track - No wiring!
- Unique One Touch DCC setting up - No CV programming!
- LED’s fade between changes - just like the real thing
- Kit of detailing extra’s also included - ladders, rails, phone etc
- Can be synchronised to other points & signals changing

1 2 3 Easy Setup - Fitting and setting up the signal

1. Slide signal into the track power clip holes
2. Touch together the two learn contacts
3. Press the controller direction command

Signals can either clip directly into Hornby or Bachmann type track (like a power clip) or you can remove the clip and connect to any track or controller with just 2 wires. Our new design is modelled on real signals and all of our products are designed and made in the UK. They can be controlled by any DCC controller or PC DCC system which can control accessories and take seconds to set up! Just choose an accessory address, touch the two hidden learn contacts then send an accessory command from your controller. Thats it, set up and ready to go!

New Feather and Theatre Route indicators now available on any signal with extra decoder built-in - just give them the same address as your points and they light automatically when route set!

DCC fitted Colour Light Signals - set up in seconds

DCC Colour Light Signals

- DS1 2 Aspect Home £26
- DS1L with Left Feather £36
- DS1R with Right Feather £36
- DS1T with Theatre £36

- DS2 2 Aspect Distant £26
- DS2L with Left Feather £36
- DS2R with Right Feather £36
- DS2T with Theatre £36

- DS3 3 Aspect Home-Distant £30
- DS3L with Left Feather £40
- DS3R with Right Feather £40
- DS3T with Theatre £40

- DS4 3 Aspect Distant £30
- DS4L with Left Feather £40
- DS4R with Right Feather £40
- DS4T with Theatre £40

- DS5 4 Aspect Outer Distant £32
- DS5L with Left Feather £42
- DS5R with Right Feather £42
- DS5T with Theatre £42

- DS5H 4 Aspect £34
- DS5HL with Left Feather £42
- DS5HR with Right Feather £42
- DS5HT with Theatre £42

- DS6 £38
- DS6L with Left Feather £42
- DS6R with Right Feather £42
- DS6T with Theatre £42

- DS7 £38
- DS7L with Left Feather £42
- DS7R with Right Feather £42
- DS7T with Theatre £42

- DS8 £28
- DS8L with Left Feather £42
- DS8R with Right Feather £42
- DS8T with Theatre £42

Modern 3 & 4 colour Multi Aspect Signals

Modern railways have multi aspect signals where a single lens can display red, yellow or green and a 4 aspect dual lens version which can also display double yellows:

DS9 Multi 3 Aspect Signal £40
- DS9L with Left Feather £50
- DS9R with Right Feather £50
- DS9T with Theatre £50

DS10 Multi 4 Aspect Signal £42
- DS10L with Left Feather £52
- DS10R with Right Feather £52
- DS10T with Theatre £52

For Dual Head signals with Feather and Theatre options please contact us

Ground Position Shunt Signals

Ground position signals are mainly used to control shunting movements in sidings or station. Because they are small we have fitted the electronics underneath so that the signal head can be mounted realistically close to the surface using a single hole. They can be easily controlled by DCC, Mimic switch or by Track Sensor for automatic control. Both red/white and yellow/white variations are available.

GS1 £35
- Head Size 36mm
- Red

GS2 £35
- Head Size 36mm
- Yellow

Train-Tech offers both types as DCC fitted and like all other DCC signals easy to control using a DCC address of your choice.

Dual Head Home DS6 £38
- DS6L with Left Feather £42
- DS6R with Right Feather £42
- DS6T with Theatre £42

Dual Head Distant DS7 £38
- DS7L with Left Feather £42
- DS7R with Right Feather £42
- DS7T with Theatre £42

DS9H §34
- 4 Aspect O/Distant inc Flashing
- DS9HL with Left Feather £42
- DS9HR with Right Feather £42
- DS9HT with Theatre £42

NEW!
Modern 3 & 4 colour Multi Aspect Signals

Modern railways have multi aspect signals where a single lens can display red, yellow or green and a 4 aspect dual lens version which can also display double yellows:

DS9 Multi 3 Aspect Signal £40
- DS9L with Left Feather £50
- DS9R with Right Feather £50
- DS9T with Theatre £50

DS10 Multi 4 Aspect Signal £42
- DS10L with Left Feather £52
- DS10R with Right Feather £52
- DS10T with Theatre £52

For Dual Head signals with Feather and Theatre options please contact us

Ground Position Shunt Signals

Ground position signals are mainly used to control shunting movements in sidings or station. Because they are small we have fitted the electronics underneath so that the signal head can be mounted realistically close to the surface using a single hole. They can be easily controlled by DCC, Mimic switch or by Track Sensor for automatic control. Both red/white and yellow/white variations are available.

GS1 £35
- Head Size 36mm
- Red

GS2 £35
- Head Size 36mm
- Yellow

Train-Tech offers both types as DCC fitted and like all other DCC signals easy to control using a DCC address of your choice.

DS9L £50
- DS9R £50
- DS9T £50

DS10L £52
- DS10R £52
- DS10T £52

GS1 £35
- Head Size 36mm
- Red

GS2 £35
- Head Size 36mm
- Yellow

www.train-tech.com | 01953 457800
**Colour Light Signal Kits - for regular DC switching**

A range of self assembly signal kits which can be controlled by DC using standard switches or DCC using a Train-Tech or other DCC decoder.

- **OO/HO** Self assembly Colour Light Signal kits
- Each kit includes a base, ladder, metal post and detailing wires to the LED strip.
- **Low cost** – adapt to your own design
- LEDs prefitted and tested - no wires!
- Control by switches or DCC using SC1/SC2

All signal kits (excluding SK1) include resistors and can be controlled by a switch with DC or by a DCC decoder (2 solder connections).

- Ground Position signal kits are easily mounted through a hole in the baseboard and can be controlled either by a standard switch using DC or by DCC using a DCC decoder.

- **Signal Heads kits** are ideal for mounting onto signal gantries or your own signal posts. LEDs are prefitted on a compact board which fits in the head which you wire to a decoder, switch or automatic signal controller (see p11). A Feather or Theatre can also be fitted. Kit includes LED board, head casing, line wire, resistors. Note fine soldering is required.

- **Signal Heads kits and Theatre Indicator**
  - Kits are now available fitted with left / right feathers and theatre indicators as shown on the previous page and also available as add-on kits for existing signals as below.
  - **Left and Right Feathers**
    - To indicate a direction or route.
  - **Theatres and Feathers** are also available separately to fit onto other makes of signals and can be controlled by a switch with DC or by a DCC decoder (2 solder connections).

**Signal kit with LED stick, post, details**

<table>
<thead>
<tr>
<th>Kit</th>
<th>Model</th>
<th>DC Price</th>
<th>DCC Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK1</td>
<td>Basic Kit only</td>
<td>£6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic kit and metal post only. (No LEDs or resistors)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK2</td>
<td>2 Aspect Home</td>
<td>£10</td>
<td></td>
</tr>
<tr>
<td>SK2L</td>
<td>with Left Feather</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK2R</td>
<td>with Right Feather</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK2T</td>
<td>with Theatre</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK3</td>
<td>2 Aspect Distant</td>
<td>£10</td>
<td></td>
</tr>
<tr>
<td>SK3L</td>
<td>with Left Feather</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK3R</td>
<td>with Right Feather</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK3T</td>
<td>with Theatre</td>
<td>£20</td>
<td></td>
</tr>
<tr>
<td>SK4</td>
<td>3 Aspect Home Distant</td>
<td>£11</td>
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</tr>
<tr>
<td>SK4L</td>
<td>with Left Feather</td>
<td>£21</td>
<td></td>
</tr>
<tr>
<td>SK4R</td>
<td>with Right Feather</td>
<td>£21</td>
<td></td>
</tr>
<tr>
<td>SK4T</td>
<td>with Theatre</td>
<td>£21</td>
<td></td>
</tr>
<tr>
<td>SK5</td>
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<td>SK5L</td>
<td>with Left Feather</td>
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<td>SK5R</td>
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<td>£21</td>
<td></td>
</tr>
<tr>
<td>SK5T</td>
<td>with Theatre</td>
<td>£21</td>
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<tr>
<td>SK6</td>
<td>4 Aspect Outer Distant</td>
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<tr>
<td>SK6L</td>
<td>with Left Feather</td>
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<td></td>
</tr>
<tr>
<td>SK6R</td>
<td>with Right Feather</td>
<td>£22</td>
<td></td>
</tr>
<tr>
<td>SK6T</td>
<td>with Theatre</td>
<td>£22</td>
<td></td>
</tr>
<tr>
<td>SK7</td>
<td>2 Aspect Dual Head Home Signal</td>
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<td>SK8</td>
<td>2 Aspect Dual Head Distant Signal</td>
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<td>SK9</td>
<td>3 or 4 Multi Aspects</td>
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</tr>
<tr>
<td>SK9L</td>
<td>with Left Feather</td>
<td>£30</td>
<td></td>
</tr>
<tr>
<td>SK9R</td>
<td>with Right Feather</td>
<td>£30</td>
<td></td>
</tr>
<tr>
<td>SK9T</td>
<td>with Theatre</td>
<td>£30</td>
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</tbody>
</table>

**NEW!**

For Dual Head signals with Feather and Theatre options please contact Train-Tech

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**Signal kits with Feather and Theatre Indicator**

Signal kits are now available fitted with left / right feathers and theatre indicators as shown on the previous page and also available as add-on kits for existing signals as below.

**Left and Right Feathers**

- To indicate a direction or route.

**Theatres and Feathers** are also available separately to fit onto other makes of signals and can be controlled by a switch with DC or by a DCC decoder (2 solder connections).

**SH2** 2 Aspect Home (R+G) 12 x 10 x 5 mm | £12
**SH3** 2 Aspect Distant (Y+G) 12 x 10 x 5 mm | £12
**SH4** 3 Aspect Home Distant (R+Y+G) 16 x 10 x 5 mm | £13
**SH5** 3 Aspect Distant (Y+G+Y) 16 x 10 x 5 mm | £13
**SH6** 4 Aspect Outer Distant (R+Y+G+Y) 20x10x5mm | £14

**Ground Position signal kits** are easily mounted through a hole in the baseboard and can be controlled either by a standard switch using DC or by DCC using a DCC decoder.

**GK1 / GK2 Original & Modern Red Ground Signal kit** £16
- Includes a panel with red and white LEDs prefitted as shown, casing and resistor. It can be wired to show modern or original colours. Full wiring instructions included.
- **GK1 & GK2 are the same kit**

**GK3 / GK4 Original & Modern Yellow Ground Signal kit** £16
- Includes a panel with yellow and white LEDs prefitted as shown, casing and resistor. It can be wired to show modern or original colours. Full wiring instructions included.
- **GK3 & GK4 are the same kit**

**For Dual Head signals with Feather and Theatre options please contact Train-Tech**

---

**SH5** 3 Aspect Home Distant (R+Y+G) 16 x 10 x 5 mm | £13
**SH6** 4 Aspect Outer Distant (R+Y+G+Y) 20x10x5mm | £14

For Dual Head signals with Feather and Theatre options please contact Train-Tech
DCC Signal Controllers

These Signal Controllers make it easy to control signals made by Train-Tech & other manufacturers using DCC.

- Control LED & Semaphore signals by DCC
- One Touch DCC™ button - No programming!
- Screw terminals for wires - no soldering
- Simple 2 wire connection to track or controller output
- Can synchronise to other Signals & Points

Just connect the signal and connect the DCC terminals of the signal controller to the nearest track. Choose an address, press the One-Touch button and send a command from your DCC controller.

That's it, all set up!

Colour Light Signal Controllers

SC1 Dual 2 aspect signal controller £17
Controls Two x 2 aspect LED colour light signals. Compatible with Train-Tech SK2, SK3, SK7, SK8 & other makes of 2 aspect LED signals.

SC2 3-4 aspect or 2 aspect + route signal controller £17
Controls One 3 aspect or One 4 aspect or One 2 aspect+route LED light signal. Compatible with Train-Tech SK4, SK5, SK6 multi aspect signals and the new range of signal kits with Feather and Theatre indicators: SK2R, SK2L, SK2T and SK3R, SK3L and SK3T. Also compatible with other manufacturers LED route signals.

Dapol Semaphore Signal Controller

SC3 Dual Dapol Semaphore signal DCC controller £35
The SC3 is designed to specifically control one or two Dapol N or OO gauge semaphore signals. It contains 2 DCC decoders so each signal has its own DCC address. The SC3 provides a regulated supply and signals connect directly using existing wires & no modifications or power supply is required.

Automatic Dapol Semaphore Signal Controller

SC300 Dual Dapol controller with Automatic Semaphore control £40
Like the SC3 (see opposite page), the SC300 provides stable power and DCC control of 2 Dapol semaphore signals directly from a DCC track or bus. Additionally the SC300 also has inputs for Track Sensors (see page 13) allowing Semaphore signals to operate automatically as Trains are detected on the track! The SC300 is also Layout Link compatible and may be linked to Mimic Switches and Mimic Lights so that Dapol Semaphore signals can be both controlled and monitored from a Mimic panel. As well as controlling the signals using DCC, the SC300, Track sensor and Mimic switch can be used on analogue DC as well as digital DCC layouts.

Automatic Colour Light Signal Controller

SC100 Automatic Colour Light signal controller £30
The Colour Light Automatic Signal controller is based on our Sensor Signal technology and enables standard LED colour light signals to be wired and controlled automatically. It will operate 2, 3 or 4 aspect colour light signals and also includes an output to control a feather or theatre route indicator using a Mimic switch or DCC.

- Control standard LED colour light signals automatically
- 2, 3 and 4 aspect plus feather / theatre route output
- Link to other automatic signals for block working
- Manual override facility using Mimic Switch or DCC
- Slides directly into some OO track when used on DCC
- Or locate and wire for 12-16V smooth DC or DCC

The SC100 is ideal for converting existing LED colour signals to automatic operation, signal gantries (Signal Heads page 9), remotely located signals and controlling continental or other non Train-Tech designed signals. Like Sensor Signals, the Automatic Signal Controller can be used on its own or linked to other controllers or Sensor Signals using just one wire to enable fully automatic Block Signalling. The output connection terminals are designed for soldering to the signal wires.

N Gauge Although primarily designed for OO/HO gauge, it can also be located next to N gauge track and connect to N gauge signals.
Mimic Switches and Lights enable you to make a mimic panel to monitor and control other Layout Link products such as Signals, Points and Level Crossings. You can even see where trains are by linking to Sensor Signals or Track Sensors around your layout - just like the real thing!

Wiring is very easy thanks to Layout Link, so there is just a single wire going between a Mimic and a Sensor or accessory. Multicolour LEDs are supplied with both Mimic Switches and Mimic Lights which can show signal colour as well as occupancy on your mimic panel. LEDs just plug into the LED sockets. In addition to the 2 LEDs supplied you can also add 3 others to display various extra functions.

Mimic Switches
Mimic switches feature a switch, 2 LED sockets and a Layout Link connector. You can use a Mimic Switch to:
- Manually control a point on the PC200; LEDs mimic the point position
- Manually control Sensor Signal red + route; LEDs show Signal colour and Train location
- Manually control a Semaphore signal with the SC300; LEDs mimic the signal position
- Control an LC10/LCN10 Level Crossing; LED mimics the colours of the barrier lights
- Manually control a GS Ground Position Signal; LED mimics signal colour

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>MS1</td>
<td>Mimic with Toggle switch with 2 plug-in LEDs and instructions</td>
<td>£14</td>
</tr>
<tr>
<td>MS2</td>
<td>Mimic with Push Button with 2 plug-in LEDs and instructions</td>
<td>£14</td>
</tr>
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</table>

Mimic Lights
Mimic Lights are very similar to Mimic Switches except they have no switch and just display the status or position of Layout Link accessories. Mimic Lights also have a DCC decoder built in and can be set to display the status of any type of DCC accessory!

You can use a Mimic Light to:
- Mimic Signal colour & show Train location (occupancy) when connected to Sensor Signals
- Mimic the point position from a PC200 or any other make of DCC point decoder
- Show the position and movement of a Train over a Track Sensor or Sensor Signal
- Show Signal colour or Semaphore status of DCC signals
- Mimic the colours of the barrier lights

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<tr>
<td>ML1</td>
<td>Mimic Light with 2 plug-in LEDs and instructions</td>
<td>£12</td>
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Track Sensor PLUS
The Track sensor incorporates an infrared sensor which detects a train passing over it and controls products in the Layout Link Family - the new Plus version also has additional outputs for direct connection to LEDs & other non-Layer Link items.

**Track Sensor PLUS**
A Track sensor is located next to the track and features a built in infrared sensor which senses a train passing and easily links to and controls a range of Layout Link products using just a single wire which plugs in - no soldering required.

**Track Sensors can control:**
- Trigger the LC10 Level Crossing lights and sounds when a Train approaches (page 21)
- Control Dapol Semaphore signals automatically using the SC300 controller (page 11)
- Control a Ground Position shunt signal to change as the train passes sensor (page 7)
- Link to Mimic Switch/Light to show trains passing, location (ideal for hidden tracks)
- Link to a Sensor Signal to change the following block section (like a dummy signal)

**New Track Sensor PLUS features:**
The Track Sensor Plus features additional solder terminal outputs to link directly to devices such as LED (included), solid state relay, computers (eg Raspberry Pi, Arduino). Note that all models of Track Sensor can be powered from DCC or 12-16v smooth DC. The 4 additional outputs on the Plus version function as follows:
- Output on as train passes over sensor
- Random flashes as train passes - like sparking
- Turns on then off between alternate trains

**ST10 Track Sensor PLUS complete with LED and instructions £25**

**ST1 Track sensor has been superseded by ST10 which does all ST1 functions + more**

To Power by DCC
Simply slide the Track Sensor into the power clip slots which are included in some types of OO track.

To Power by DC or DCC
Cut off the fingers at the dotted lines and solder 2 wires to the base to power from DCC or a 12-16v smooth DC supply.

Using Track Sensors with N gauge
Although Track Sensors are primarily designed for OO/HO gauge track, they can also be located next to N track to operate accessories such as the LCN10 N gauge Level Crossing, Sound Track, Mimic panel etc.
**DCC Point Controllers**

Easy to fit and use controllers which simply connect to your track and points to enable control from your DCC controller or computer.

- **Control points & uncouplers using DCC**
- **One Touch DCC™ - No programming!**
- Just connect 2 wires to nearby DCC rails
- **Easy screw terminals – no soldering!**
- Use standard solenoid point motors
- **Built in powerful CDU for efficient operation.**

**Easy to fit:** Screw terminals connect just 3 wires to any standard point motor (eg Peco, Hornby etc) and 2 wires to the nearest rails or DCC bus.

**Easy to use:** Choose an accessory address, press the One-Touch button then send an accessory command from your DCC controller or computer. Thats it, you are ready to go!

**Synchronise Points and Signals easily:** As well as controlling each point individually you can easily synchronise to other Signals and Points by using the same address for everything you want to sync, so that routes can be set with correct signalling using just a single command!

**Easy to use controllers which simply connect to your track and points to enable control from your DCC controller or computer.**

**PC200 Quad One-Touch DCC Point controller with manual override switch control and multiple Route Store**

Like the PC2, this module includes a built-in CDU and controls 4 solenoid point motors by DCC, setting up instantly using One Touch DCC.

**Manual Control**

In addition to control by DCC, the PC200 also has 4 switch inputs for manually controlling each of the 4 points. You can either use regular switches such as toggles, or you can also connect the new Mimic switch to both control and display the Points position on your own control panel - see Mimic products on page 12.

**Route Store**

As well as the 4 main DCC addresses, the PC200 can also save multiple routes; By setting an extra address you can control groups of points using a single command, allowing easy setting of routes.

**Automatic Coach Lighting** for coaches & multiple units

Instant easy lighting for any coach - DC or digital

- Easy to fit in seconds - **No wiring!**
- No switch - turns on automatically as train moves
- **No pickups so works on both regular DC or DCC**
- Traditional warm white or modern cool white
- Also with tail light, sparks or door lights effects!
- **Lights stay bright and constant with no flickering**
- Fit most coaches & multiples and may be cut down
- **OO/HO gauge is 220mm long, trimable to 75mm**
- **N gauge is 100mm long, trimable down to 55mm**

**1 2 3 Easy to fit - fitting a coach lighting strip**

Each lighting strip is completely self contained with a built-in long life battery and five efficient LED lamps which realistically light any coach! There is no need for a switch as the strip incorporates a small sensor which detects when the train moves and turns on the lights automatically. The lights stay on whilst the train is in motion, then after it stops keeps them on for a few minutes before turning them off so that temporary stops at stations or signals leaves the coach lit. Easy to fit in seconds - no wiring!

As well as the standard Lighting strips there are also dual function versions with an additional effect which also work automatically and come complete with LEDs for the extra effect and which plug straight into the coach lighting strip so no wires or soldering!

**Warm white simulate traditional bulbs or oil lamps; Cool white simulate modern fluorescent**

- **NEW Multipacks - Saves 10%!**

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**CL51** - London Transport Museum S Stock 1 Car lighting strip (for OO) £20
**CL150** - LTM S Stock 4 Car lighting set - including spark effect & door tones (for OO) £89

**PC1 Single One-Touch DCC™ Point controller**

Controls 1 point

**PC2 Quad One-Touch DCC™ Point controller**

Controls 4 points

**PC1 Single One-Touch DCC™ Point controller**

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Controls 4 points

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Smart Screen

Smart Screen is a real working animated screen in miniature which you can customise with your own messages to really bring your layout to life! The small display module has everything built inside so you only need to connect 2 wires to DC or DCC power to make it come alive. The Smart Screen can display multiple screens which can be triggered by a range of different inputs including switches, DCC commands and even Track Sensors which can be used to show a different screen as a train passes over it.... 'Platform 1: MyTown'....

Small and easy
Everything is contained in the Smart Screen so no complicated wiring or circuit boards - just connect 2 wires to a power source and go!

Bring your station Alive!
Mounting a Smart Screen on a platform or in a station can add a lot of realism. You can change the displays at the touch of a button, or if you fit one or two Track Sensors next to your tracks it can show appropriate messages for trains arriving or departing completely automatically! And if your layout is DCC you can automatically display different screens for the various routes your points are set to as trains leave the station...... the possibilities are almost endless!

Setting up your own message screens
Smart Screens come preloaded with a demo display, but you can fully customise your own messages and screens. Although once set up the screen can be powered from DCC or DC, you need to use a DCC controller to set up your own screens and inputs. This is fully explained in the instructions, but if you do not have access to a DCC controller to set it up Train Tech or your dealer will be able to help.

Animated displays.... just like the real thing
Sometimes you may want to display several words or list the various stations your train is stopping at, but they wouldn’t normally fit on the screen. However Smart Screen is able to display long messages by scrolling them along the screen automatically.... just like the real thing!

All aboard!
As well as mounting your Smart Screen on the Station you can also fit it inside a train! You can just connect it to a regular DC power feed to light it up, or if you are running your locomotives on DCC the Smart Screen has a built-in digital decoder which can be set to monitor the train direction and display a different destination or message automatically depending on its direction of travel!

Controlling and powering your Smart Screen
Smart Screens can either be powered directly from 8-16 volts smooth DC or from DCC. Different display screens can be set to be controlled by a number of different types of inputs or commands:
- 1 or 2 Track Sensors to show different screens
- 1 or 2 switches, eg button, reed switch
- DCC Accessory - eg point or signal control
- DCC Loco - by direction or Function buttons

Check out the online video!

Smart Screen OLED display modules - power from DCC or 8-16V smooth DC or 9V battery
- SD1 Smart Screen - Single pack including wire and instruction booklet £50
- SD2 Smart Screen - Twin pack including wire and instruction booklet £90

Smart Screen housings
- These are 3D printed and may require extra painting and finishing
- SE1 Smart Screen enclosure - mount or hang screen in various locations - Pack of 2 £10
- SE2 Smart Screen enclosure on mounting post Right hand - for platforms etc £10
- SE3 Smart Screen enclosure on mounting post Left hand - see picture opposite £10
Smart Lights are a new kind of light which you can easily fit inside buildings, trains, vehicles or other parts of your layout which light up your models with the lighting effects of your choice! Each Smart Light is only 1cm square and just 2 wires connect it to almost any low voltage supply. If you have a digital layout you can control it using a simple DCC accessory command (even if it is on board a moving train!), although it is just as easy to power from a 12V smooth DC power pack or a 9 volt battery!

- Just 2 wires! Power by standard 9 - 16V DC or a 9 volt battery
- Or power by DCC which can also control some effects
- Just connect and go - no setting up required
- Fitted with Self adhesive pad for easy mounting
- Just 2 wires! Power by standard 9 -16V DC or a 9 volt battery
- Fitted with Self adhesive pad to easily fix the Smart Light into any building!
- Drill a small hole in the car base and feed the wires through before reassembling.
- Use Blutack to hold the Smart Light under light bar & to prevent light bleed.
- Use the self adhesive pad to easily fix the Smart Light into any building!

How does it work?
Smart Lights incorporate a unique Train-Tech microchip to control a multicolour LED which can light up any colour or mixture of colours, rather like pixels in a modern TV. The chip contains special software to reproduce all kinds of effects!

Idea... Fitting a SL30 Emergency Vehicle Smart Light into an Oxford Police Car

Disassemble the car and carefully drill a hole in the roof underneath the blue light bar.
If the car is metal, insulate interior with insulating tape to prevent short circuits.
Use Blutack to hold the Smart Light under light bar & to prevent light bleed.
Drill a small hole in the car base and feed the wires through before reassembling.
Tip...Use the self adhesive pad to easily fix the Smart Light into any building!

Tip... For SL10 disco, print some bold colours to make the floor look like its moving!

Idea... Let's make a BBQ!
Mount a Fire effect Smart Light under the top of a pencil rubber casing filled with some cotton wool.

Actual Size!

10mm

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Smart Lights

SL10  £15
Party / Disco Lights

Uses a mixture of lighting colours and flashes to simulate a party or disco in a house, night club or pub etc. See flooring tip on opposite page.

SL20  £15
Random Lighting

This Smart Light randomly turns on and off simulating the lights in an office, house, station, outbuildings and streets etc. Adds life to a scene!

SL30  £15
Emergency Vehicle

Realistic multi flashing blue or blue and red light which can be fitted under the roof light of a model emergency vehicle. See car fitting guide on opposite page.

SL40  £15
Real Fire Effect

Flickering shades of amber and yellow flames mixed with the red embers of a real fire. Adds life to a scene! See BBQ tip on opposite page.

SL50  £15
Arc Welding Effect

Bright white arc welding flashes followed by a slowly dimming red glow from the weld cooling down. Ideal to bring a shed or industrial scene to life!

SL60  £15
Television Simulator

Fits inside a model house or shop and lights just like a television with multiple colours and flickering. Add this Smart Light and some people to bring interiors to life!

SL100  £15
Custom Smart Light

You can set this Smart Light to show your choice of colour, brightness and effect using a DCC controller in accessory control mode. Although it must be set up using DCC, once set up it can be powered by either 9-16v battery / DC or DCC. It has 3 main customisable functions:
- Colour - Choose from 14 different colours or an automatic colour cycle
- Effect - Choose from 8 different effects inc. constant, flash, flicker, fade.
- Brightness - Choose from 9 different brightness levels from 10% to 100%

Set and change an unlimited number of times. It remembers the effect until you change it!
LFX Lighting & Sound Effects for layouts

The LFX controllers simulate a range of lighting effects which help to bring your layout to life! They are all really easy to connect and use and LEDs for effects are included.

- Easy screw terminals for all connections - no soldering
- Connect LEDs directly - no resistors needed
- Power by 9V battery, 9-16V DC or control using DCC
- LEDs included - just add to your models (not included)

LFX1 Level Crossing Barrier Lights £15
LFX1S Level Crossing Barrier Lights PLUS sound! £20

Lights a sequence of amber then alternate flashing red lights. Two red and an amber LED are included and these can be fitted into a suitable level crossing barrier model such as the Peco LK51. An additional set of 9 LEDs are also available which enables working lights to be installed on all sides of the level crossing (see pack LED1 £6).

LFX1S also features a sound generator producing the realistic sounds of a modern level crossing from the speaker included.

LFX2 Home & Shop Lighting £15
Randomly switches up to 4 sets of LEDs to light model houses, rooms, shops, stations, pubs, etc. etc. 4 mixed colour LEDs supplied. Extra LED set LED2 £6

LFX3 Traffic Light controller £15
Automatic timed traffic lights - can be used with another LFX3 to run an alternate junction. Extra LED set LED3 £6

TL1 - Traffic lights kit - this requires gluing & soldering [pair] £10

See all the effects on the Train-Tech YouTube channel - www.youtube.com/TrainTech

Level Crossing & Traffic Lights - ready assembled

These are N and OO scale models of UK style level crossings which are preassembled with lights and sound and come complete with Peco™ static level crossing barriers and fence as shown in the photo. They are easy to fit requiring just a 10mm diameter hole drilled in your baseboard and the model is held in place by a special flush Mounting Gap (included).

Electrically these are very easy to wire up as all connections are by push fit single core wires. They can be powered by any 9-16V DC supply, DCC or a 9 volt battery.

Manual or Automatic control
The level crossing lights and sounds can be controlled in a number of ways:
1) A switch connected between the power supply and the level crossing.
2) Controlled completely automatically by a Track Sensor via Layout Link (page 13).
3) Switched by a Mimic Switch connected via Layout Link (page 12).
4) If layout is DCC via your controller which is easily set up using a DCC address

Traffic Light - fully assembled - just connect power and it works!
This working traffic light comes assembled ready to fit. Just drill a hole, push it in and connect 2 wires to 9-16 Volts DC, DCC or a 9 volt battery. It lights in the standard UK sequence and timing between changes is random to add realism over a layout. Add a line of white paint around the traffic light head for that finishing touch. A really quick and easy way to add extra interest and lights to your layout in seconds!

TL10 Traffic Light - OO/HO - one single working + one non-lit dummy £25
TL10P Traffic Light - OO/HO - pack of 2 working traffic lights £45

Extra LED Packs for LFX & general use (includes resistors)
LED1 - Level Crossing sub miniature LEDs - 3 extra sets (3 x amber 6 x red) £6
LED2 - 10 Assorted 5mm diameter LEDs (2 x red/green/yellow/orange/white) £6
LED3 - Traffic Light sub miniature LEDs - 3 extra sets (3 x red/yellow/green) £6
LED4 - Fire effect LEDs - 2 extra sets (2 x red/amber/yellow) £6
LED5 - Welding effect LEDs - 2 extra sets (2 x white/red) £6
LED7 - Ultrabright LED set for LFX7 effects (2 x blue/orange/white) £6
LED10 - 10 Assorted colour sub miniature LEDs (4 x red 2 x yellow/green/orange) £6
LEDCLIP1 - Pack of 5 LED clips with wire - no soldering - LEDs just push in! £6

For more LEDs and accessories see page 27
AL Automatic Lighting Effects for Trains

Easy to fit lighting effects for rolling stock & locos
- Tiny module fits most brake vans, coaches, locos, etc
- No switch - senses motion & turns on lighting automatically
- No wires or soldering - LED & battery just clip in
- Fits many gauges from N: module is 13mm x 22mm x 11mm

These small modules incorporate a motion sensor which detects movement of the train and automatically turns on lighting. Various effects from constant light for coaches and headlamps, modern flashing tail lights and flickering flame effect for steam firebox or oil lantern tail light which flickers more as the train bumps over the track, just like the real thing! Dual output AL’s feature both constant lighting output plus a second effect such as electric sparks & amber door lights.

N GAUGE - AL1 / AL2 / AL3 fits some N gauge stock using smaller BAT2 12mm battery & cutting lights.

Feature both constant lighting output plus a second effect such as electric sparks & amber door which flickers more as the train bumps over the track, just like the real thing! Dual output AL’s feature both constant lighting output plus a second effect such as electric sparks & amber door lights.

See page 27 for spare batteries, extra LEDs and other accessories.

Single function AL modules all include LEDs, long life 20mm battery and fitting guide

1 2 3 Easy to fit - fitting an AL into a brake van

1 Remove roof and drill two small holes for LED
2 Fit module inside and plug in LED and battery
3 Refit roof - LED lights when brake van moves!

Dual function AL modules all include LEDs, long life 20mm battery and fitting guide

AL Automatic Lighting Effects for Trains

Scenic Sounds for any layout

Scenic Sounds Modules bring life to any layout

Sound can really bring a layout to life and these new modules make it so easy; just connect two wires to the nearest power source, hide the module and turn on.

- Compact sound module with built in loudspeaker
- Real natural sounds specially recorded for these modules
- Easy connections - just two screw terminals for power supply
- Power from 8-16 volts smooth DC for natural random sounds
- Or power from DCC for controlling sounds by DCC or random
- Fits inside a model or under the baseboard
- Built in adjustable volume control
- Joint British development between Gaugemaster and Train-Tech

Scenic Sounds Modules - power directly from DCC, 9V battery or 8-16V smooth DC

GM780 Lineside Sounds include
- Point throws
- Semaphore clunks
- Signal rodding
- Trackside sounds

GM781 Station - Steam Sounds include
- Guards Whistle
- Slamming doors
- Steam loco pulling out
- Station Bell

GM782 Station - Modern Sounds include
- Door closing beeps
- Guards whistle
- Trains pulling out
- General station noise

GM783 Urban Sounds include
- Roadworks
- Aeroplane flying over
- Slow moving traffic
- General City noise

GM784 Rural Sounds include
- Animal noises
- Church bells
- Birdsong
- General country noise

When powered by DC: Modules can play randomly as above, or individual sounds can be played on command by DCC; eg Point throw played as a point changes, signal rodding etc

NEW

GM780 Lineside Scenic Sounds module
GM781 Station (Steam) Scenic Sounds module
GM782 Station (Modern) Scenic Sounds module
GM783 Urban Scenic Sounds module
GM784 Rural Scenic Sounds module

£30*
£30*
£30*
£30*
£30*

www.train-tech.com | 01953 457800

Scan to Watch the Video
Sound Track is an easy to use portable sound recorder which enables you to record your own sounds, bring back and replay automatically on your layout!

It has 4 separate sound tracks, each of which can be replayed either by a controller command, touch of a button, or triggered by a Track Sensor when a Train reaches a particular place.

So now you can have your favourite locomotives whistle played at the Whistle sign, or your own station announcement played automatically when the train comes into the station!

Make the sounds your own
Most model sound systems can only playback preset sounds which someone else has recorded, the majority of which can only be controlled by DCC.

Sound Track enables you to record your own sounds and is really easy to use, with just three buttons to select the track, record and playback. It can be battery powered for recording and playing back sounds on location, then brought back to your layout, connected up and your sounds controlled either by switches, sensors or DCC commands. Sound Track can be used on battery, DC or DCC and stores your recordings indefinitely until you decide to re-record. It can also play two tracks at once, so for example you could have the continuous background sound of a station, then a platform announcement coming over as your train comes into the station!

- Records sound tracks using the built-in microphone
- Replays sound tracks from the built in loudspeaker
- 4 sound track stores, each can be upto 35 seconds long
- Lock feature to protect valuable sound tracks
- Capable of playing up to two sounds at the same time
- One track can be continuous looped for background sounds
- 4 screw terminal for connecting switches or Track Sensors
- Powered by DCC, 9-16V smooth DC or internal 9 volt battery
- Portable - size 11.1 x 5.7 x 3 cm

A regular 9 volt PP3 type alkaline battery is required for portable operation - not supplied.
SFX PLUS Sound capsules for any model train system

Easy low cost sound which works on any railway

- Easy to fit in seconds - no connections or switches!
- No pickups or wiring so works on analogue DC & DCC
- Self contained capsule - built-in speaker & battery
- Tiny capsule: 25mm x 20mm x 12mm approx.
- Real recorded sounds from real trains
- Fit capsule into a loco, tender, wagon, coach....
- N Gauge fitting guide free online or on request

NEW PLUS VERSION includes facilities for adjusting volume and fitting an external speaker and battery

Many modellers like the extra realism which sound can bring to a layout but until now it has been an expensive and complicated feature to add and usually requiring DCC, extra wiring and quite a lot of space. SFX needs none of this and works in almost ANY train!

We have developed a tiny sound capsule which brings rich real railway sounds from your favourite train! The SFX is completely self contained with a built-in speaker and battery which needs no pickups or connections of any kind and so is both easy to fit and works on any train system, including analogue DC or digital DCC.

How does it work?
At the heart of each SFX is a microchip containing the real recorded train sounds and a small motion sensor which detects what the train is doing and replays the most appropriate sounds through the tiny loudspeaker. The motion sensor also turns power on and off automatically so that battery life is preserved and there is no need for any switch.

SFX PLUS Sound capsules - all supplied with battery, sound tube and fitting guide

- SFX10+ Steam Express locomotive - incl chuffs, steam, fireman coaling, whistles £45
- SFX20+ Diesel locomotive - including tickover, turbo, air, horn etc with coating £45
- SFX11+ Steam Freight locomotive as SFX10 but slower heavy goods or shunting £45
- SFX21+ Diesel locomotive - as SFX20 but continuous after speed up - no coating £45
- SFX30+ Electric power locomotive - including motor whine, horn, etc £45
- SFX50+ Diesel Multiple unit - including tickover, guard buzzer, gear changes, horn £45
- SFX60+ Electric Multiple unit - including tickover, motor whine, horn, etc £45
- SFX70+ Goods freight sounds - including couplings, wheel squeals, buffers £45
- SFX80+ Passenger coaches - including couplings, doors, squeals, guard £45
- BAT1 Pack of 3 spare batteries for SFX sound, coach lighting & AL products £3

Hear the sounds and get updates on the latest releases at www.train-tech.com or call
Track Tester

- Quickly tests track for power faults
- Colour shows DCC, DC polarity or fault
- Easy to use
- Low cost
- Tests OO, HO, N TT, or 009 Gauge track
- Checks point frogs

TT1 Track Tester £5

Buffer Lights

Buffer stop lights which simply clip into the track either in front or behind your buffer stop. No wiring - lights instantly!

- Add realistic stop light to any siding
- Low cost and easy to fit in seconds
- Simply clip into the track – No wires!
- Fits next to most buffer stops & kits
- Or use free standing - platform end
- On DCC both LEDs light constantly
- On DC 1 LED lights when track is on
- Helps bring your layout to life!

BL1 OO/HO gauge Buffer Light
BL1 Single buffer light £5
BL1x10 10 Pack buffer lights £45

BL2 N/009 gauge Buffer Light
BL2 Single buffer light £5
BL2x10 10 Pack buffer lights £45

Where to see or buy Train-Tech products:

- Buy direct from us online at www.dcpexpress.com
- Call 01953 457800, order by post, or come to see us
- Model shops throughout the UK and worldwide
- Items marked * are not available to the trade
- UK trade dealer enquiries to Gaugemaster
- International, OEM or design enquiries to DCP
- £4 UK First Class Post per order - overseas postage on dcpexpress.com
- Cheques payable to DCP Microdevelopments - minimum £25 cheque value
- We regret we are not permitted to ship any batteries outside of the UK
- See video’s of many of our products at www.Youtube.com/TrainTech

T: 01953 457800  E: sales@dcpmicro.com  W: www.dcpexpress.com
DCP Microdevelopments, Bryon Court, Bow Street, Great Ellingham, NR17 1JB, UK

Train-Tech products are designed & manufactured in Great Britain by DCP

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