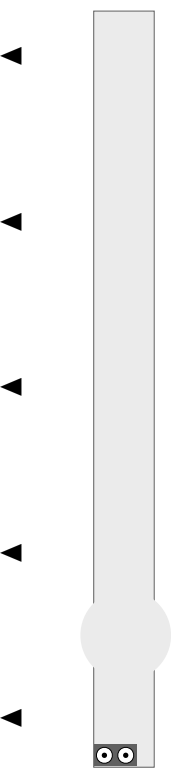


CN21 Coach Lighting strip: Cool white with Flashing Tail light

Easy fit automatic lighting for N/009 coaches & multiple units
Senses movement and turns the lights on & off automatically!



TAIL
LIGHT



- Easy and quick to fit
- No wires or pickups
- Lights automatically
- Coaches, DMUs etc

Also fits other gauges:

- 009 gauge
- 00/HO Brake Vans
- 00/HO 4 wheel coach
- May also be cut down

Train-Tech - Designed and made in Gt Britain 

Easy and quick to fit:

- 1 Remove roof of coach or brake van etc
- 2 Fit lighting strip in roof
- 3 Replace the roof

That's it! No pickups, no wires, no switches.

Lights come on as soon as the train moves and remain on after it stops moving for 4 minutes, so that they stay on at signals and stations.

Detailed instructions included.

Battery & Lantern shape LEDs included

DCP Microdevelopments Limited
Bryon Court, Bow Street,
Great Ellingham
Norfolk, NR17 1JB, Great Britain
Tel: 01953 457800
email: sales@dcpmicro.com
DCP www.dcpexpress.com
Train-Tech www.train-tech.com

CN21 N Coach Lighting Cool white with Flashing Tail



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Fitting instructions

1 Setting up - Fitting the battery

Slide battery (+ side up) into holder; + side upwards. Once the battery is fitted the LED's should light - the slightest movement automatically switches them on.

2 Remove the roof from your coach

Tip - Sometimes the roof and body are all one piece and unclip/unscrew from chassis or the roof comes off on its own. Model shops / manufacturers also offer advice.

3 Prepare for tail light LED

Drill 2 small holes (eg 1mm) in rear of coach where the tail light will be located. Choose which lantern LED you wish to use - clear and red ones are included. Paint it white or black first for even more realism.

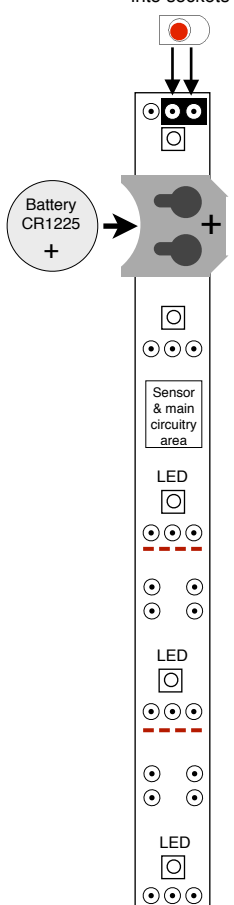
4 Fit the lighting strip into the roof

Pass the tail LED wires through your holes and push into the two sockets shown right. The tail light should flash - if not try plugging the LED wires in the opposite way. You can use Bluetack or sticky pads to hold the strip in place. (Some coaches may have high internal walls or a centre post which can be trimmed down, or if necessary you can break and rejoin the strip - see right)

5 Refit the roof

You have completed installation!
Lights will switch off automatically four minutes after the last movement.

Plug Tail LED into sockets



Mini Coach Lighting Strip - additional information

Lighting Problems?

If the lights flicker or become intermittent try removing the battery and gently press down the two spring contacts with a small screwdriver. Check battery is clean and free of grease before refitting. When lights are weak or dim replace the CR1225 battery, available from electrical retailers, online, DCP express & Train-Tech dealers as pack reference BAT2.

Lighting strips may be cut down as the red dashes show. The strip may be cut down, either to fit it into a shorter coach or to split lighting inside a compartment to avoid obstacles such as a pillar, wall or a motor in a multiple unit for example. With care it may be cut at either of the two points indicated by a dotted line as shown right & overleaf. We suggest using fine sharp model or wire cutters to make a clean cut without getting too close to any silver circuit board 'pads' or twisting the strip. Remove the battery before you cut and smooth the edges with a fine file before using. If splitting the lighting strip you can reconnect part strips using wires to link any two rows of 3 silver pads together.

Moving the Tail lamp LED

If your lighting strip also has tail or other effects you can also move these either by moving the fitted socket(s) or connecting the LED's directly to the silver pads (this requires soldering). Note that all rows of the 2 and 3 silver pads on the lighting strip are connected together so any can be used either for effect LED's or connecting split strips together. The drawing on the right shows the many possible positions for the effect LED's.

Note that any modifications made to the strip are at the owners risk

How the automatic coach lighting strip works

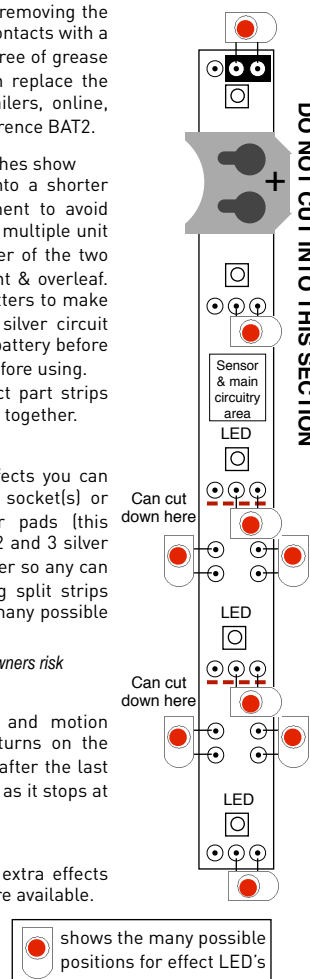
The strip incorporates a special microchip and motion sensor which detects slight movement and turns on the lights, then keeps them on until four minutes after the last motion, so that the lights do not go out as soon as it stops at a signal or station.


Other coach lighting strips


Versions with cool or warm white LEDs plus extra effects like flashing tail or flickering flame tail lights are available.


Ask for your free Train-Tech brochure!


www.train-tech.com





 shows the many possible positions for effect LED's


Track Tester		DC & DCC	O & G Gauge	OO HO	N Gauge
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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
	<p>Every kit includes the signal head, aluminium post & base plus detailing kit</p> <ul style="list-style-type: none"> 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 		

Signal Controllers		DC & DCC	AUTO	ANY GAUGE
<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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 OR ASK FOR FREE COLOUR BROCHURE

About Train Tech

Train-Tech products are both designed and fully manufactured in Great Britain by DCP Microdevelopments Limited, a family owned UK company established in 1981.

Train-Tech products are available from many model railway shops and dealers, as well as direct from DCP Express.

A brochure is available free on request.

DCP telephone 01953 457800

DCP email sales@dcpmicro.com

DCP webshop www.dcpexpress.com

Train-Tech website www.train-tech.com