

# COACH LIGHTING

Batterv

CR2032

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Sensor & main

LED

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LED

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**CL32 Coach Lighting: Warm white + faulty flickering tube light**Easy fit automatic lighting for 00/H0 coaches & multiple units
Senses movement and turns the lights on & off automatically!

- Easy and quick to fit
- No wires or pickups
- Lights automatically
- One light flickers like a faulty fluorescent tube!



Train-Tech - Designed and made in Gt Britain

# Fitting instructions

Setting up - Fitting the battery

Slide battery (+ side up) in under gold contact first, then push down.

Once the battery is fitted the LED's should light - the slightest movement automatically switches them on.

- 1 Remove the roof from your coach
  Tip Sometimes the roof and body are
  all one piece and unclip/unscrew from
  chassis or roof comes off on its own.
- Pit the lighting strip into the roof
  You can use Blutack or sticky pads etc
  to hold the strip in place. Note that the
  last light furthest from the battery
  is light that flickers like a faulty tube.
- Refit the roof
  You have completed installation!
  Lights will switch off automatically
  four minutes after the last movement.
- **4 Battery** When lights become dim or intermittent replace with a standard CR2032, available from many retailers and Train-Tech dealers as part BAT1.
- 5 Moving the faulty tube flicker effect The last light in the strip is wired to flicker, but this light may be connected back to normal and a separate effect white flickering LED (not supplied) can be fitted in a toilet, quards area etc. See Left: To return last LED to normal carefully cut out the wire link marked in orange, then add a fine wire link where the **green** wire is shown (left). You can then solder a separate white 'flicker' effect LED to any of the pairs of contacts marked 🗂 on the left. Important: Note that this modification requires fine soldering and wiring and may invalidate your warranty.
- **Other coach lighting strips**Cool or warm white LEDs plus extra
  effects like tail light, electric spark
  effects & amber door lights available.

Ask for a free Train-Tech brochure! CR 2032 Battery included

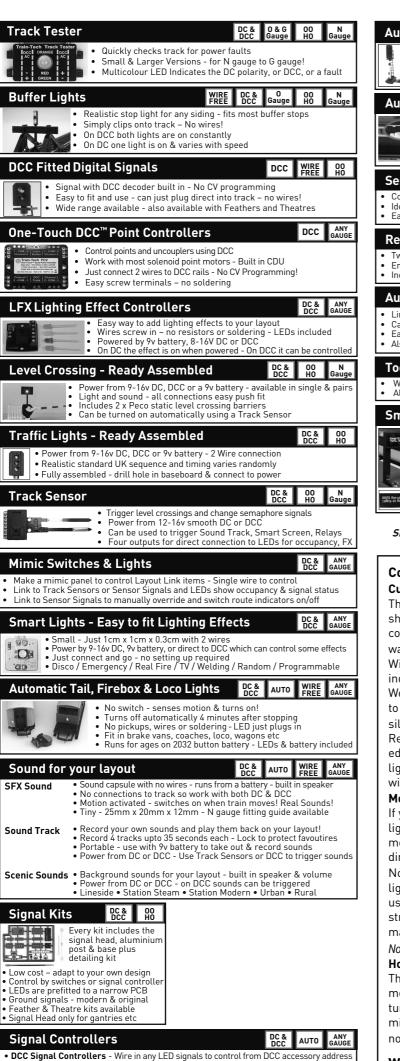


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DCP www.dcpexpress.com Train-Tech website www.train-tech.com CL32 Warm White Coach Lighting strip with faulty fluorescent light flicker





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**

Detects train and changes signal automatically to red Used own & signal changes back to green after train short time

# **Automatic Coach Lighting**

DC & AUTO WIRE 00 DCC AUTO FREE HO

Or link to other Sensor Signals for fully automatic block signalling Can be used on both DC & DCC - Feather & Theatre versions

- 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

- 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**

- 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

- 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

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Battery CR2032

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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**

00 H0

• Real working animated screen - customise with your messages

- Use DCC to program then can be run on DC or DCC
- Trigger messages with DCC, swtiches, 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

# Coach Lighting Strip - additional information Cutting the lighting strip down

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 any of the four 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 Tail, Spark or Door effect LEDs

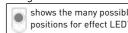
If your lighting strip also has tail, spark or door light effects you can also move these either by moving the fitted socket(s) or connecting the LED's directly to the silver pads (this requires soldering). Note that all rows of the 2 and 3 silver pads on the lighting strip are connected together so 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 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.

www.train-tech.com



shows the many possible positions for effect LED's