

DS10 - Outer Distant Two Lens 4 colour Red-Yellow-Green-Yellow Digital DCC Signal

HANDLE WITH CARE - THIS MODEL IS NOT A TOY AND IS FRAGILE!

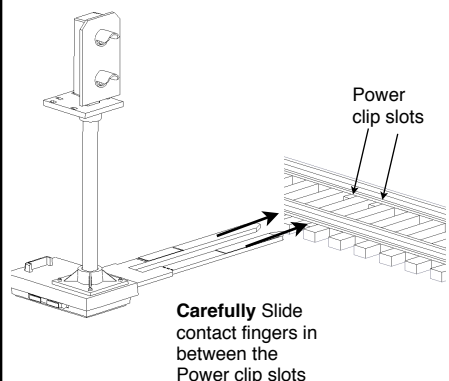
This is a modern image multi aspect signal which incorporates a DCC decoder to enable it to be plugged or wired directly into the track and be controlled by any controller which is able to control DCC accessories. Please read these instructions before fitting your signal.

1 FITTING YOUR SIGNAL

Switch off your DCC controller and power to your Track before fitting signal!

- Locate the power clip slots in the track* and holding the signal **BASE** only, carefully align and push the signal contact fingers into slots. *This may be a tight fit so take great care!*
- Switch on controller and power to the track - the Signal will light.

If the signal does not light at this stage see 'Troubleshooting' below before going further

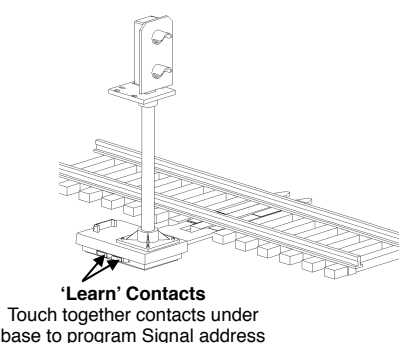


! Always hold signal by base, never by the post or head!

2 SETTING THE SIGNAL ADDRESS

You need to choose a DCC address for your signal. Because DCC accessories can only have 2 'directions' your 4 aspect signal needs two addresses and so will use both the address you program and the next immediate address, so ensure both addresses are unused for other accessories before programming. For example, if you choose address 65 the signal will use both address 65 and 66.

- Set up your controller to control DCC accessories (refer to your controllers instructions) and set your controller to the address you choose for your signal.
- To program the signal, use a short link of insulated wire to briefly touch together the 'Learn' contacts until the signal lights flash, then send the ◀ or ▶ 'direction' command from your controller that you want to signal green. The signal will stop flashing, light up green and your signal is now programmed to the address you chose and the next consecutive address.



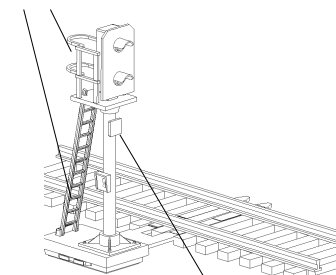
3 CONTROLLING YOUR SIGNAL

You control the signal by setting your controller to the DCC accessory address of your signal and sending a 'direction' command from your controller to change the Signal colour (actual terms used for accessory control vary between controllers so please refer to the instructions)

Address (eg 65) ◀ or ▶ = Red or Green
Address+1 (eg 66) ◀ or ▶ = Yellow or Two Yellow

Each signal head can have their own unique address or can be synchronised to other DCC signals or points etc by giving them the same address as each other. Your signal will retain your chosen address unless you change it, which you can do by following step 2.

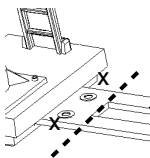
Extra Details can also be fitted - see below



Tip: The Location board can be used to show the DCC address of your signal to make it easier to identify - you can cut out and glue the address from the table printed below

* Wiring to non Hornby or Bachmann fixed Tracks

These signals will only clip directly into standard Hornby or Bachmann tracks which have slots for a power clip. If you do not have this type of track or want to position your signal in a different place you can *carefully* cut off contact fingers where shown and connect wires from the 2 contacts marked X to the nearest DCC track - it does not matter which way round the wires are connected. (NB Peco Streamline flexible track does have deep slots which can work by using packing under fingers)



Troubleshooting

Step 2 is the 'One Touch' DCC stage which programs the accessory address into the signal. If it does not work:

- Check that one of the signal LEDs is lit - if not and locos etc run correctly on the same piece of track check the signal contact fingers are clean and tightly fitted between the track sleeper and rail - clean if necessary.
- If a Signal LED is lit double check that your DCC controller is in *accessory* addressing mode - note that this is completely different to Locomotive addresses and will be explained in your controller instructions.
- Try fitting the signal to another section of track (or use pieces of wire to temporarily connect it to another track)
- If these steps fail contact your dealer or DCP support.

Signal design

This signal is our own design and tool and as well as a range of Digital signals you can also buy Automatic and traditional DC kits based on this signal in 2, 3 or 4 aspect single and dual head designs with LEDs or a basic kit to add your own lights or make up as a dummy signal.

Easy to use One-Touch™ Digital Signal and Point controllers are also available.

Synchronising with other Signals and Points

Although each signal can have its own unique address, if you wish you can easily synchronise some of your signals and/or points to work together to add basic automation to your layout which can also make it easier to run and more realistic.

For example you may wish to sync a Home and Distant signal together so that the Distant signal automatically changes with the Home signal before it. To do this you simply program both signals with the same DCC address which you can do either by touching the contacts on both signals then programming them at the same time, or doing each individually with the same address.

Note that a Train-Tech Digital signal always goes to Green immediately after programming, making it easier to synchronise multiple signals as all signals have green. Similarly you could sync a Signal to a Point controlled by a Train-Tech DCC Point controller so that the signal is always red when the point is against it and green when it is clear to go. Again you can do this by programming the Point and Signal with the same DCC address.

Computer Control

Some DCC controllers can be connected to a PC to enable computer control of locomotives and accessories like this signal - for more details on what is compatible with your system consult your controller supplier.

Location board labels

These legends can be cut out and glued to the model Location board on the plastic detailing sprue. We suggest you use the DCC address you have programmed into your signal which will make the signal easier to identify and operate.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
AD	CA	DA	ES	EN	GE	GY	MY	PN	NW
AB	CD	EF	GH	IJKL	MNOP	QRST	UVW	XYZ	
AB	CD	EF	GH	IJKL	MNOP	QRST	UVW	XYZ	

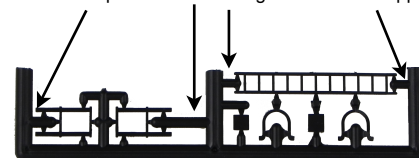
Extra details

The signal is supplied with a kit of plastic parts for you to add extra details like ladder, handrails, phone and location board if you wish. These may be cut from the supports using small cutters or a knife on a cutting mat, but take care as these parts are extremely small and fragile, so we recommend using the following technique to remove them without damage.

We suggest you first remove ladder and main parts by carefully cutting the thicker supports first - after cutting these they should break away from the other parts by gently 'rocking' and you can then trim the fine supports. Parts may be cut from the supports using a knife on a cutting mat or by using precision cutters which can be invaluable for modellers - they are available from model shops or direct from us at www.dcpexpress.com

You will also find that fine nose pliers or tweezers are useful both for cutting out and fitting parts. Parts can be glued in place using model adhesives such as Liquid poly or cynoacrylate 'superglue' etc.

We recommend first cutting the thicker supports to release main parts then trimming off the small supports











You can use the Location board (small square sign) to show the DCC address of the signal by cutting out and glue the number from the table printed.

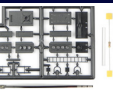
You can also weather or paint the signal and add scatter material or ballast etc around the base and fingers, but take care not to cover the Learn or contact fingers and never let water or moisture get into base of the signal as this contains sensitive electronics.

Caution

This product is not a toy but a precision moulded model kit and as such has small parts which may choke or harm a child. Always take care when using tools, electricity, adhesives and paints, especially when children or pets are nearby.




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
	<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
	<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
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
	<ul style="list-style-type: none"> Every kit includes the signal head, aluminium post & base plus detailing kit 		
<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
	<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



**DS10 Outer Distant
Red•Yel•Green•Yel
Two Lens 4 colour
DCC clip-in signal**

• Detailing
kit included

• Signal plugs into track
- just like a power clip!
• Or connect 2 wires

• DCC Decoder in base

www.Train-Tech.com

See our website, your local model shop or contact us for a free colour brochure
DCP Microdevelopments, Bryon Court, Bow Street, Great Ellingham, NR17 1JB, UK
Telephone 01953 457800 • email sales@dcpmicro.com • www.dcpexpress.com