

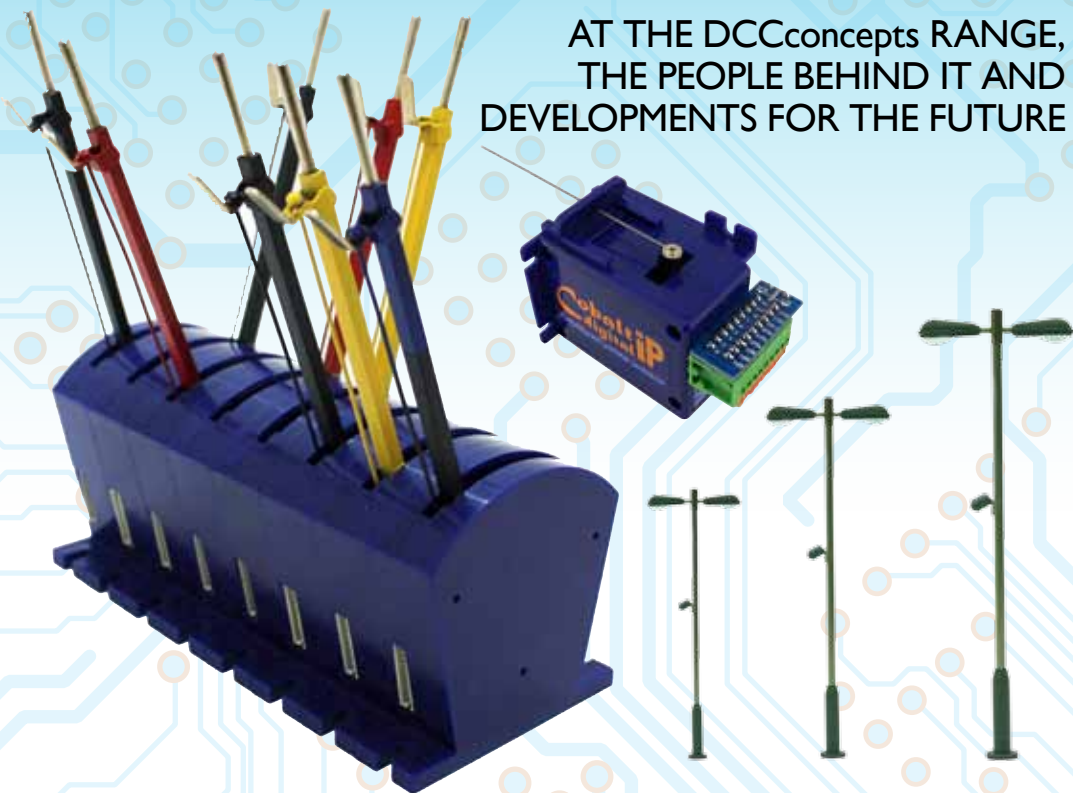
FREE 16-PAGE MINI-MAGAZINE!

INTRODUCING...



AN EXCLUSIVE INSIDE LOOK

AT THE DCCconcepts RANGE,
THE PEOPLE BEHIND IT AND
DEVELOPMENTS FOR THE FUTURE



DCC ■ ELECTRONICS ■ LIGHTING ■ TOOLS ■ ACCESSORIES
■ CONTROL EQUIPMENT & MUCH MORE

FREE WITH **MODEL RAIL** NOVEMBER 2014

“THINKING OUTSIDE THE SQUARE”

We've chosen a slogan to use with our DCCconcepts logo: 'Thinking outside the square'. It's not just marketing - it embodies our approach to new product development.

We are hands-on modellers, just like our customers. When it comes to the things we create, we try to combine our modelling awareness with an appreciation of new materials and technologies to take a new approach. We respect the traditional way of doing things, but we don't accept dogma or compromises. We don't dismiss new ideas; we embrace them and try to innovate. We look at problems that have existed for modellers for many years and try to find effective, definitive solutions.

We look for new ways to make things easier, better, more capable... or just more fun to use!

Most importantly, we enjoy what we do, and we think it shows in what we create. Here are three examples of new ideas we've released in the last year, which focus on solving problems for modellers.

ZEN decoders

Smooth running, reliability and versatility are all important features of a DCC decoder - but they aren't too hard to achieve. The primary goal in the design of the DCCconcepts Zen decoder range was to make them easy to install, because installation is, in reality, the biggest problem faced by DCC users.

As a result, The Zen range includes the ZBHP Buddha - a high-power, top-quality 'O' gauge decoder that's small enough to install in any 'O' gauge locomotive. Then there's the ZN8D - the world's smallest and most versatile four-function, direct-plug decoder. The ZN6H model is the only 'N' gauge decoder that can be installed as 6-pin direct, 6-pin with harness or 8-pin with harness. Finally there's the ZN218 - a

surprisingly small decoder that can be either a 21-pin direct or 8-pin harness-connected installation.

PowerBase

Adding a gradient to a layout always introduces huge compromises, or results in poor performance as locomotives struggle on gradients - even pulling light trains. And it's been that way since the hobby began.

We've patented PowerBase, one of our favourite products because it's a simple concept, mixes old and new technology and ideas, is easy to apply and can be used by modellers of all skill levels. Once installed, it allows locomotives of all sizes to tackle gradients as if they were not there. It's a low-cost solution and it works every time, in every modelling scale.

There are other benefits too. It reduces the need for track cleaning and improves electrical pickup. If you use it across the whole layout, it fixes two common problems in one go.

AD-S8fx and AD-S2fx Solenoid decoders

Just released, the AD-S8fx and AD-S2fx Solenoid decoders conform to our "thinking outside the square" ideology. They work equally well for AC, DC or DCC modellers. They offer both digital and analog control. And they're cost-effective.

Most importantly, they work better than any other product on the market. And they fix the dual problems of frog power control and panel light control that have troubled modellers for more than 50 years. Put simply, they just work.

Each of these examples is, in its

own way, something special.

We like them because they aren't just 'more of the same', like so many other products. They exist for a reason. They are created specifically to make it easier to enjoy the hobby and give modellers solutions to problems.

That's what 'Thinking outside the square' stands for. We hope you enjoy the results. **WB**



THE DCCCONCEPTS AD-SFX SOLENOID DECODER RANGE

Simple to use and versatile - DCCconcepts accessory decoders take the frustration out of wiring up your layout

Very, very few accessory decoders can reliably power TWO Peco, Seep or Hornby point motors, so it is no surprise that DCCconcepts ADS Accessory decoders were

already a runaway success!

However, at DCCconcepts we are never satisfied until we reach our ideals, and the newly released AD-S8fx (8-way) and AD-S2fx (2-way) Accessory decoders do just that!

Building on the success of our ADS design, that already allows any individual output to power both ends of a loop or a crossover, we have now added features that solve problems modellers have struggled with for more than 50 years!

AD-S8fx and AD-S2fx decoders really can do it all!

There is no need for an added power supply when used for DCC as they store all the power they need on-board, with a CDU built into every output. Therefore they do not drain the train power when operating. Because of this, they also work beautifully with the fast-firing commands of computer

control and 'route setting'.

They include built-in LED control for control panels and signals, frog power switching to change the polarity of live frog (electro-frog) pointwork - and they can even be used to provide feedback to a computer system.

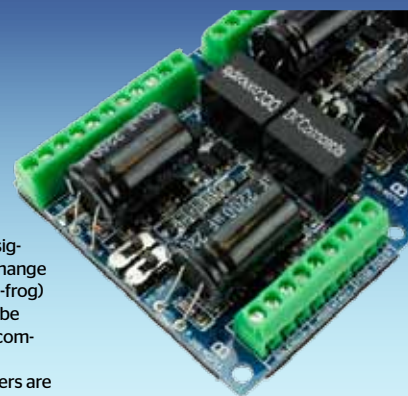
AD-S8fx and AD-S2fx decoders are so versatile.

They are equally usable on DC or DCC controlled layouts, and how you choose to control them is up to you as they are incredibly versatile: (For DC control, use a 15-22V DC laptop or similar power supply)

You can, of course, address each of the outputs individually and operate them with DCC. You can also have manual control just by adding two pushbutton switches... or if you prefer, use stud and probe, diode matrix or even trigger each output with a detector for basic automation... they take it all in their stride!

Wiring is simple too... most connections are made via simple screw terminals - only the LED outputs require the use of a soldering iron.

AD-S8fx and AD-S2fx decoders save you time, frustration, effort and a LOT of money!



Ever added micro-switches for frog and panel light control to a solenoid - along with all that extra wire - then had to tweak the motor to get it working reliably because of the extra load? You'll understand what we mean straight away.

None of us wants the added stress of complex installation, and DCCconcepts AD-Sfx series decoders make it so much simpler and easier. Most importantly they'll also save you money - there is NOTHING else to buy when you use them.

Example: ONE AD-S8fx Solenoid decoder can power a whole 16-point double-ended fiddleyard - at the same time it can power all of its live frogs and let you add control panel lights. Yet AD-S8fx itself costs only about two thirds of the cost of the double micro-switches you would need to buy if you used ANY other accessory decoder!

With a street price of under GBP70 for the AD-S8fx they really are exceptional value! **WB**



MODEL RAIL'S VIEW

Designed to work with standard solenoid point motors such as Seep and Peco, this is available as a two-way unit or a much bigger eight-way unit. In each case, each output is able to operate two point motors reliably.

As with all DCC products, this is easily wired to the track with just two wires, or to a two-wire accessory bus bar system.

These units can be sited locally to the points which need operating and putting in a suitable operating address can be achieved through your controller and a simple switch on the unit itself; far simpler than a lot of other types of these units I have tried and given up with.

Because these are designed for solenoid point motors, there is a large built-in capacitor that gives the solenoid a good electrical 'thump' when it operates. The recharge rate is quick, which is an added bonus if you operate the points in a shunting yard.

There is a built-in switch to change the polarity of live frog points, which gives you better, smoother running through points - no nasty dead spots.

Also included is the ability to switch panel-mounted LEDs included in your main control panel. This will give you a visual indication of the direction of the points. This application is particularly welcome when installed and operating hidden sidings. It will reduce the chance of running up the back of a train already occupying that siding.

Best of all, this unit can be used on a DC layout; instead of two wires to the track for DCC, just replace with a 15V DC power supply - result!

DAVE LOWERY



Cobalt-S

the switch that
switches everything

controls it all

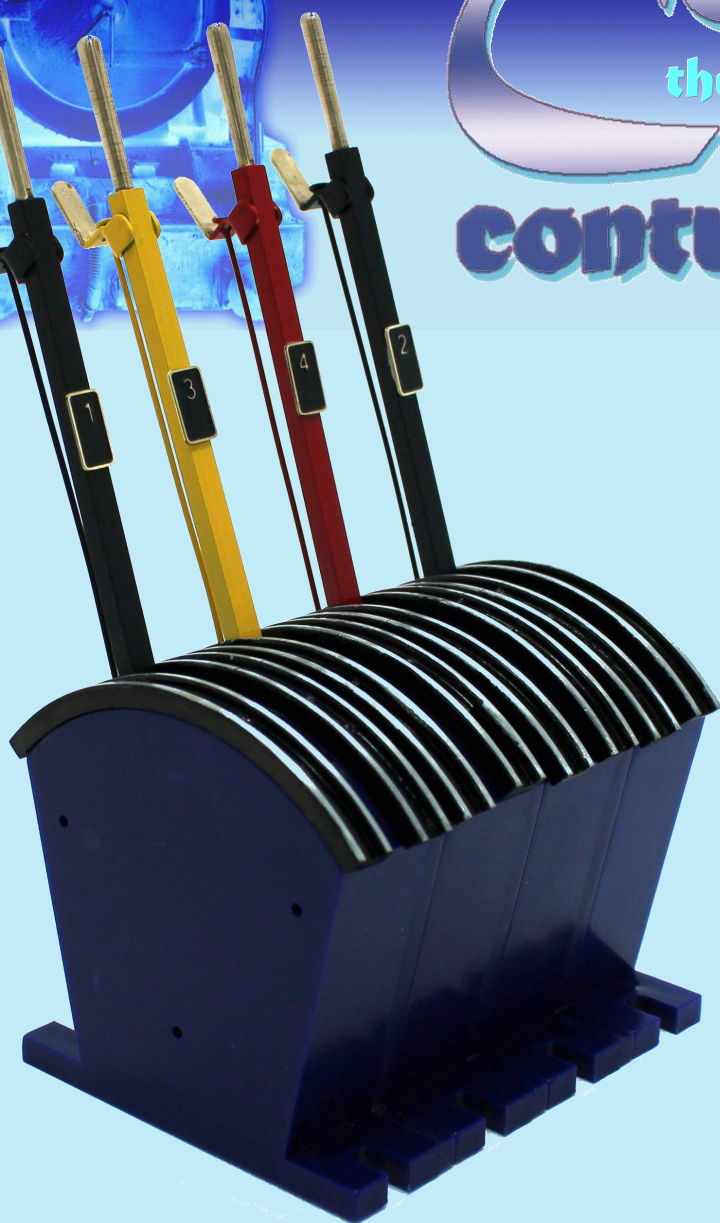
Cobalt-S can do anything!

Cobalt-S is a high quality "control lever" which has been created to allow modellers to use ONE kind of switch to control ALL of the devices on their layout.

Cobalt-S is equally usable for any scale or with almost any accessory whether AC, DC or DCC powered and with any form of train control at all.

There are a myriad of uses... either for dissimilar or linked operations: For example, one Cobalt-S can do all the following for you: change a Seep, Hornby or Peco Solenoid, Cobalt or motor drive point motor, switch frog polarity, control your panel lights & signals and operate a "safety section" interlocking to prevent a point being crossed without being correctly set.

Cobalt-S really can control almost anything that has ever been created for use on a model railway.



Cobalt-S: Super-smooth in operation:

140mm high with a solid brass lever & engineering plastic case, Cobalt-S is built to last with a feeling of real quality rarely seen in our hobby.

Cobalt-S uses a typical form of traditional signal box lever. The catch must be gripped to release the lever, and released at end of throw to lock it in position. The pull is smooth and firm and locking is positive. The quality of feel is only exceeded by its abilities - because with one momentary and two standard switches built in to every one, there is nothing it cannot do!

Cobalt-S can be purchased in singles for you to try - then you can save money by buying it in economical six or twelve packs.

Six and Twelve packs contain an appropriate "Signal lever" quantity plus the proper quantity of all accessory items. Of course, these packs also save you some hard earned hobby money by offering a lower per-lever cost too.

Cobalt-S comes complete with accessories that you would usually only find in an expensive limited production Fine-scale hand made kit!

You don't just get Cobalt-S: Each pack includes etched brass lever numbers, Some finely cast and blackened detail castings, a harness, connection PCB and even the screws you need to mount it with. Accessory kits are available separately too!



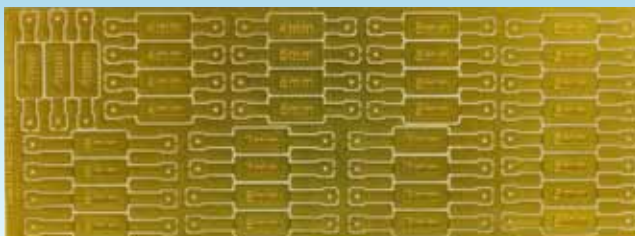
POWERBASE MAKES GRADIENTS POSSIBLE!

Take the grind out of gradients with this simple yet highly effective sub-system for your track and locomotives

For many years, modellers of UK prototypes have been frustrated by the lack of performance from their locomotives on gradients... sometimes it feels as if model locomotives have become better looking, but at the expense of pulling power. Some are downright disappointing, to say the least.

DCCconcepts is delighted to announce the solution. PowerBase does it so well, and so consistently, that we absolutely guarantee that if used properly, it will more than double the pulling power of every locomotive you own - up gradients of 1-in-30 and more!

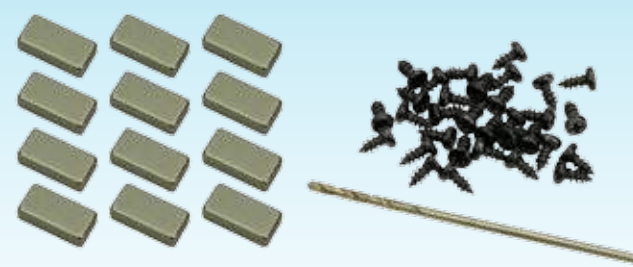
There are two more added bonuses of real value to modellers.



If you use PowerBase you will also need to spend less time track-cleaning... and PowerBase also greatly improves the quality of power pickup in your locomotives.

Installing PowerBase is so simple - any modeller, novice or expert can do it! PowerBase plates are placed under the rails, then specially created, high-power NEO magnets are attached invisibly to the baseplates of your locomotives.

Adding PowerBase magnets to your locomotives is very easy - you don't even need to take the tops off. The result will always be a large increase in traction that makes an incredible difference to pulling power. (It can be a little more work in 'N', but we guarantee that EVERY modeller, novice or expert, will reap the benefits.)




PowerBase is very economical too - the average layout can be fitted with PowerBase under 100% of its track, and all locos can be PowerBase-equipped for less than the cost of a top quality sound locomotive.

We've created a whole range of PowerBase products - nominally for 'OO'/'HO' and 'N', but they are equally usable in any scale, from 'O' to 'Z'!

Pictures often say more than words. We can only tell you a small

part of the PowerBase story here, so for more information please search the web for "DCCconcepts PowerBase" and take a look at our YouTube PowerBase videos. We know you'll be intrigued!

We cover PowerBase installation there too. A comprehensive "Laying PowerBase" video manual can be found at: www.youtube.com/watch?v=Sxiip-QdEE0 



MODEL RAIL'S VIEW

Just occasionally, something really simple but very effective pops out of the top drawer. This can surely be said about the DCCconcepts PowerBase system. It really is simple, but very effective.

It's ideal for new layouts, as it should be built into the track work as it is laid onto the baseboard. The platelets are made of magnetic stainless steel and are laid underneath the track. Then, two PowerBase plate magnets are secured to each locomotive.

Some of you may remember Hornby's "Magnehesion" system to help with pulling power. It was great, but it only worked on steel track. Not so good on nickel silver. PowerBase, on the other hand, works on all types of track.

PowerBase comes into its own on inclines or locomotives that are a little light on their feet. Ideally, you'd include it under every bit of track on your layout.

If you do the latter, you'll get the added advantage of improved pick-up; probably the biggest bugbear of any DCC layout. How many times has a small piece of dirt on your layout brought everything to a halt? If you have sound clips fitted you have to wait for the locomotive to run through its start-up sequence. Too much of this puts people off DCC. PowerBase greatly reduces these interruptions, as the locomotives fitted with magnets are forced into making good contact with the track.

And being made of stainless steel, the undertrack platelets will not be affected by the waterborne PVA glue used to stick the ballast down on the track. Magnetism - who would have thought!

DAVE LOWERY

DCCONCEPTS MODERN LAMPS

Create the right ambience with some superbly detailed NANO LED lamps

Efficiency matters when larger areas need lighting. Modern lamp installations use various technologies to create light.

Standard designs have emerged and have become widespread over

recent years.

The Philips/Sylvania range of commercial lamp standards is one that has been widely adopted throughout the railway and road system for platforms, yards, car parks and streetscapes, so it was a natural choice when it came to creating a high-quality model.

We are very pleased with the result:

Both single and double head-lamps come complete with a properly designed base and adjustable



length stainless steel posts... we have even added speakers to some posts in each pack, as these are often found where this sort of lamp is installed.

We have made these lamps with extremely fine detail. If you choose to paint them, please do so gently with an airbrush or spray can.

In the real world, these posts often feature striping and colour bands - we suggest you use striping decals or strips made for model cars. Applying this sort of stripe with super-thin tape or transfer is far, far easier than painting it on!

Available in standard or value packs, every lamp is supplied with a light control PCB. As with the gas lamps, we suggest you start with a low voltage regulated DC wall plug, and set the light to a realistic level. (Lighting in these lamps uses high intensity, pure white NANO LEDs to properly simulate the real thing.) **WB**

MODEL RAILS VIEW

260 Words From Lowrey

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AD-S8fx

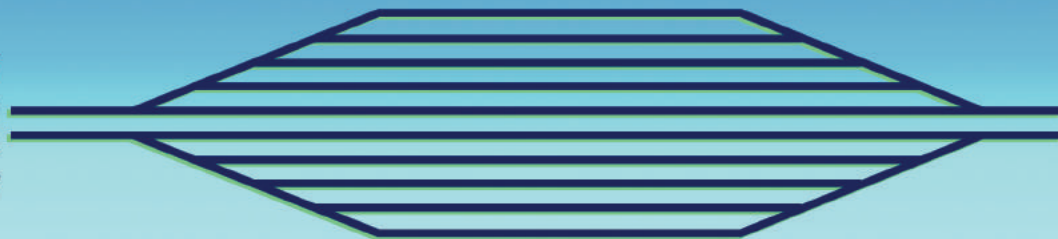
By DCCconcepts

Unique performance, real usability

Solenoid Accessory Decoder

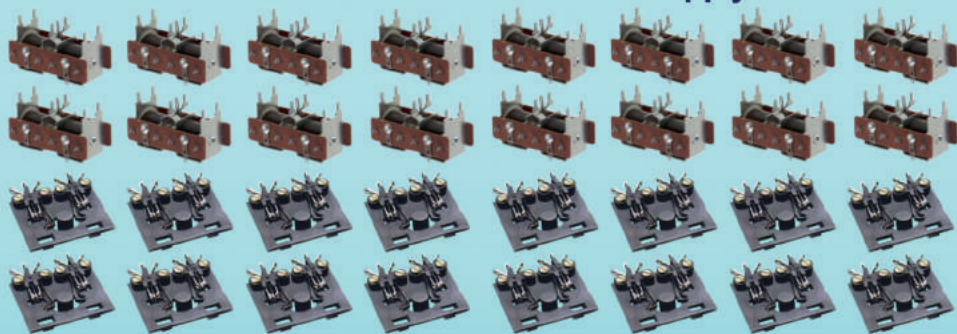
Only live frog point-work (AKA Electro-frog) gives reliable running.

But... if you want to add Hornby, Peco, Seep or any commonly use Solenoid point motor to the 16 Turnouts that are needed to build this 10 track fiddle-yard then you'll also need to switch the frogs, add control panel LEDs and of course find enough power to switch all of them reliably (and in pairs to make control easy).



You could of course buy, install and need to wire all these things...

For those who use DC Control: As well as switches and LEDs, add 16x Solenoids + 16x Micro-switches + Power supply + Reliable CDU.



... and if you use DCC Control: Add 4x 4-way Accessory Decoders.



Or you could simply use the new DCCconcepts AD-S8fx decoder...

Whether you power your layout with DC or DCC

AD-S Series decoders work perfectly, simplify wiring and lower costs

DC or DCC layout, the savings You will make in cash, installation time & complexity are very clear!

You will still need the 16 solenoids of course, but you will need just ONE AD-S8fx 8-way Accessory decoder to power them all!

Even better - You will need NO added micro-switches because the AD-S8fx has frog polarity & LED switching control on board!

Save Cash, Save time, Save wiring, Save complexity!



DCCconcepts thinking outside the square

The AD and ADS decoder ranges & all other DCCconcepts products are distributed worldwide by DCCconcepts Pty Ltd. 3/13 Lionel St, Naval Base WA 6165 Australia . Ph. 61 8 9437 2470 Fax. 61 8 9437 2471 / www.dccconcepts.com
DCCconcepts welcomes Retailer and Distributor enquiries. DCCconcepts products are distributed throughout the United Kingdom by Gaugemaster Controls Ltd., Ford Rd, Arundel * phone +44 1903 884488 www.gaugemaster.com

THE DCCONCEPTS COBALT POINT MOTOR RANGE

Precise, supremely quiet and stable under load - these new motors bring a new level of refinement to any layout

2014 sees the introduction of three all-new Cobalt point motors, each with new features and exceptional performance.

While they are identical on the outside to the original Cobalt motors, every single aspect of this range is new:

- New case tooling to allow new features and a revised drive train design.
- New gearing to improve stability under extreme load and reduce operating noise.
- New control electronics to remove any drive voltage sensitivity and new feature additions to make them even better value.

Incredibly easy to install, every Cobalt motor is now supplied pre-centred and ready to go. They're totally solder-free, thanks to high-quality spring connections, and complete right down to the mounting screws that you will need. We have even added to the accessories supplied with every motor - they now include the self-adhesive mounting pad preferred by so many Cobalt users... at no extra cost.

All Cobalt point motors carry a genuine lifetime warranty for the



original purchaser, so they really will be the last point motors you ever need to buy.

COBALT Ω (OMEGA)

Cobalt Omega replaces the original Cobalt Analog motor. Even quieter than before, it adds a voltage range switch so it can be used with a wide variety of DC power supplies.

As well as the two high-power SPDT switches already present on the original Cobalt, we have also added a third switch linked to the power input terminals to give incredible wiring versatility and interconnection/interlocking ability. Quality is evident at every point - in fact the high-power switch contacts are now gold-plated

for ultimate long-term contact reliability.

Supplied ready centred and ready to go, with everything you need for installation, the Cobalt Omega is a worthy successor to our original Cobalt Classic point motor.

Adding Digital control is easy using the all-new AD-8fx or AD-2fx Accessory decoders.

COBALT iP ANALOG - INTELLIGENT POWER

We decided to add this second analog version because customer feedback highlighted the need for a motor that was totally 'voltage free', yet had even lower power needs than the classic Cobalt Analog range. Cobalt iP includes a sophisticated control circuit that draws almost no power (5mA) when static, and only slightly more (40mA) while moving.

Cobalt iP has three on-board SPDT switches, like Cobalt Omega, and also adds simple 'swap direction' control with the flick of a built-in switch. It works on any DC voltage between 6V and 23V.

Like all Cobalt point motors, Cobalt



iP Analog is supplied ready-centred and complete with everything you need for installation.

Adding digital control is easy using the all-new AD-8fx or AD-2fx Accessory decoders.

COBALT iP DIGITAL

Cobalt iP Digital is something special.

With Cobalt iP intelligent power, plus an in-built digital decoder, it can be used for DCC operation, including the option for simultaneous control panel switches. It can even be connected to a DC power source to give DC modellers a supremely easy-to-install and "soldering-free" wiring point motor with exceptional performance.

Cobalt iP Digital does not care which voltage your power supply or track bus is... it will happily use any voltage between 9V and 23V, AC, DC or DCC.

Control can be either digital or via switches - or both at the same time. (Manual control is via two simple momentary pushbutton switches).

Change Direction can be swapped with a simple software command, and self-centering can be turned on and



off with software commands too.

Cobalt iP Digital has two inbuilt high-power SPDT switches with gold-plated contacts.

Like all Cobalt motors, it is pre-centred, ready to install. Cobalt iP Digital is supplied complete with everything you need for installation.

COBALT POINT MOTOR ACCESSORIES

DCCconcepts offers a wide range of switch packs for use with Cobalt motors, as well as other interesting accessories, such as our 'ballast label' to make the installation and final detailing around the tie-bar easy - visit our website to see the full range. [WB](http://www.dccconcepts.com)

MODEL RAIL'S VIEW

Without doubt, a motor-driven Cobalt iP Digital will be kinder to the point switch rails than the solenoid cluck/cluck, and of course is much more prototypical. Mounted under the point, a wire operates through the baseboard and connects with the hole in the tiebars.

The amount of throw can be adjusted by moving the sliding cursor up and down the body. A very interesting wiring box on the side of the body makes various operations possible. And the wires can be easily attached by push plug, as opposed to screw or soldering.

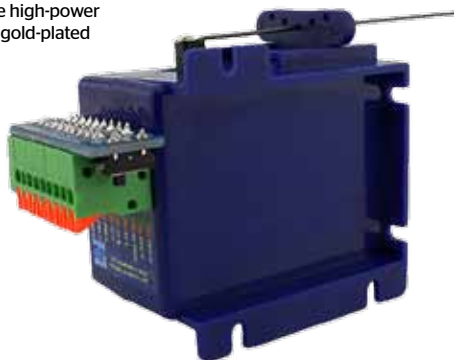
The first two connectors are for DCC power from the track. Next, an internal pre-wired switch only needs one wire to be connected to the live frog on the point to give excellent track voltage continuity.

The bottom three contacts are for a separate switch. This could be for related signalling etc. Then in the middle are two contacts for a push-button switch. This can be located next to the point, acting as a local switching operator.

Finally, there is a small slider switch that is used when the motor is given an operating address number. I did mine while connected to the programming track so I was able to check the address worked OK with the main controller. Then, when the motor was fitted in situ under the baseboard, I knew it would all work once the live track wires had been connected.

Due to their size, they will fit into many places - no matter how much planning goes into a layout, a point will always end up above a baseboard cross member close to the edge of the board... there's never enough space!

DAVE LOWERY



THE DCCCONCEPTS COBALT-S LEVER

Every now and again a product arrives that changes everything... Cobalt-S is one such product.

Cobalt-S is something special: 140mm (5½in) high and with a feel that can normally only be achieved with many hours of skilled work on a modeller's workbench.

Cobalt-S levers have a solid brass lever with a working, locking catch that gives a real feeling of action when it is moved, with a solidity and purpose reminiscent of the real thing.

Added detail parts to further enhance realism are also supplied with every switch.

Cobalt-S features incredible versatility: In fact it can literally switch ANY electrical item ever created for use on a model railway, without exception. It is simple to connect and understand.

It is a traditional 'signal box' lever-type switch that will happily group together just like the prototype but also comes complete with a subtle spacer accessory for those with larger fingers.

In use, there are simply NO limits, so you can use just a few to create a local control position, or many to recreate the major signal box of a large yard or city station.

Cobalt-S is a solver of problems: With Cobalt-S, you no longer need special switches, relays or special expensive add-ons to make things work the way you want.



Cobalt-S is the one and only device that will operate any form of point or turnout control device or signals, and can simultaneously control interlocking, operate lights on a control panel and, where needed, provide power control for live frog point-work.

Use a Cobalt-S to control traditional low-cost solenoids and the problems will disappear... or use it with Peco, Seep, Horny solenoids plus DCCconcepts' AD-Sfx Solenoid decoders or Cobalt Classic point motors.

With three switches built in, Cobalt-S makes everything possible, whether you use solenoid or motor drive point motors, semaphore signals or colour lights, or choose to operate with AC, DC or DCC power.

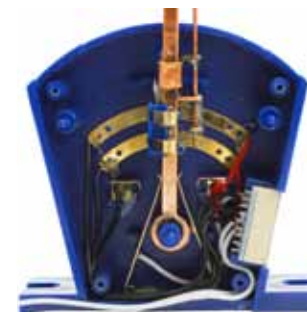
In fact, the possibilities for layout control will become almost infinite.

Cobalt-S is a product to enjoy: We've really thought about how you may want to use it, so the wiring is clearly laid out. We have created a simple PCB connection as the hub of your wiring.

Simple connection usage is described on each pack, and more complex wiring is explained in several manuals available online. We have even introduced a new 'soldering free' harness attached to our premium

spring-connector terminal blocks, as used on Cobalt motors to make connections incredibly simple for those who dislike soldering!

Finally, Cobalt-S is also supplied with extra detail parts, so as well as making possible any switching you might want, you can dress it up prototypically to add even more realism to your model railway. [WB](#)



MODEL RAIL'S VIEW

Surely a switch is a switch is a switch? Not if it's a DCCconcepts S lever! This a whole lot of switch - and it looks like a real-life switch!

Actually, it looks more like the ultimate signalbox or groundframe lever. It can be made to look exactly like a scaled down version. The lever can be painted in different colours to represent its relevant operation, such as points, signals, locking bars etc. And as the main lever is metal, the top part can be left polished, so you will need your own cloth in order to pull these levers prototypically.

A multi-pin socket is connected to the switch and the resulting switching can be achieved by following the wiring when applied to the pre-wired printed circuit board supplied in the kit.

The top three wires are configured as a single pole, double throw switch, which could be used, for example, with solenoids that only need a quick power flash.

The centre three and bottom three are configured as a simple on-on single pole, double throw switch; get switched on!

Additionally, there are two metal runners - once the switches are suitably painted they can be glued to the top of the switch housing and made to look like a proper frame. Also, and this is good thinking, a plastic spacer can be fitted in order to increase the gap between the levers, especially suitable for those us with thicker fingers!

Finally, you get a nice brass number to adorn the lever for easy identification.

DAVE LOWERY

TRACKWORK FRETS

Take your track to the next level with the DCCconcepts range of ultra-realistic products for hand-built frets and sleepers

DCCconcepts is proud to be breaking new ground and doing something new in the area of hand-built trackwork. We are doing this as part of a project to make UK prototype trackwork more realistic than ever, and products in this range will be released under the "Legacy" brand name.

Starting with the best ever range of track-making parts, this range will grow constantly from now on, so keep an ear to the ground!

We have started the long journey to better track by offering our range of pre-etched and pre-cut sleeper frets for building UK prototype track and turnouts (point-work) in 4mm scale to 'OO' gauge

The range includes plain track, diamonds, outside slips, double slips, standard turnouts and three-way points. Initially released with sleeper sizes appropriate for 16.5 and OO-SF use, we will soon add a second range for use in creating EM and P4 track.

These top quality fibreglass sleeper

frets are versatile and easy to use. (For example, the turnout fret will provide all of the sleepers needed for any turnout between an A5 and B9)

They take all the hard work out of making track with copper-clad as they are ready to use - with pre-tinned copper pads ready to solder onto... so with copper pads ONLY where they need to be, you do not even need to worry about cutting the gaps.

Being professionally cut and etched, they look so much better than hand-cut sleepers too!

We make the frets in two thicknesses - one for standard track with directly soldered rail, and another in a thin version for those using chairs to create proper UK bullhead track. DCCconcepts chairs will be available soon.



Add the most accurate range of track-making gauges ever offered and you are ready to go. Try it... you'll be surprised by what you can achieve using these products.

(All of our gauges are made using high quality hard brass and they are machined using high precision machinery to a tolerance of between -0.00" and +0.002" - no other track-making gauge or related product on the market comes close to this level of accuracy.)

Templates are freely available and we are always happy to help with good advice... and the perfect tools, solders and fluxes needed to complete the task.

■ Our track-making parts and tools are very often useful and quite suitable for the creation of track in 'HO', or for other gauges, scales and prototypes... so no matter what you enjoy modelling, take a closer look. www.dccconcepts.com