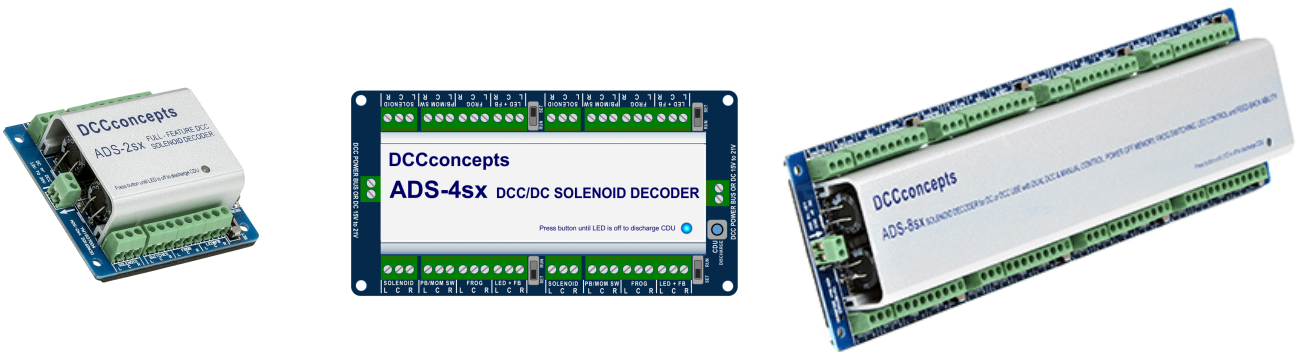# Digitally Addressable Relays!

▶ *Our accessory decoders are ultra-versatile… and contain a hidden secret.*

Our "ADS" range of accessory decoders are undeniably the **best digital solenoid control system** on the planet - but did you know that they can also be used as a very cost-effective **digitally addressable relay**?

Yes… because the FROG output on the ADS board is actually A totally separate "Single pole double throw relay" that can also be tasked to do anything you wish! Exceptionally reliable with silver plated contacts and able to easily handle up to 5 Amps, it is perfect for a multitude of uses super-simple to use!

◀──────────────────────────────────────▶

▶ *How does it work?*

Addressing and operating the relay on an ADS couldn't be simpler—it's just a 4-step process!
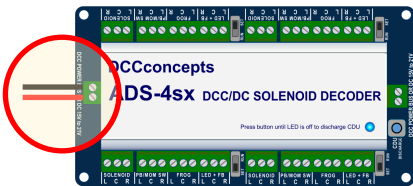
Connect your ADS to your DCC track or accessory bus.
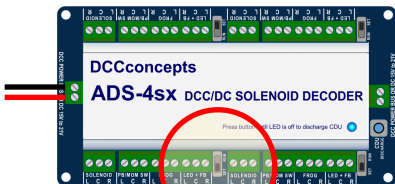
On the output you wish to pair, move the SET/RUN switch to **SET**.

Use your DCC system or controller to send the command to change the accessory number you wish to use (for example on an NCE system you would press "SELECT ACCY > 14 > ENTER > 1" to select the address of 14).
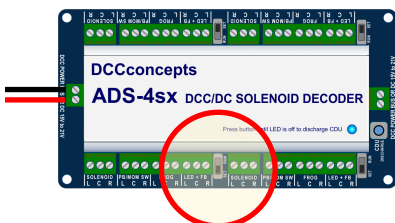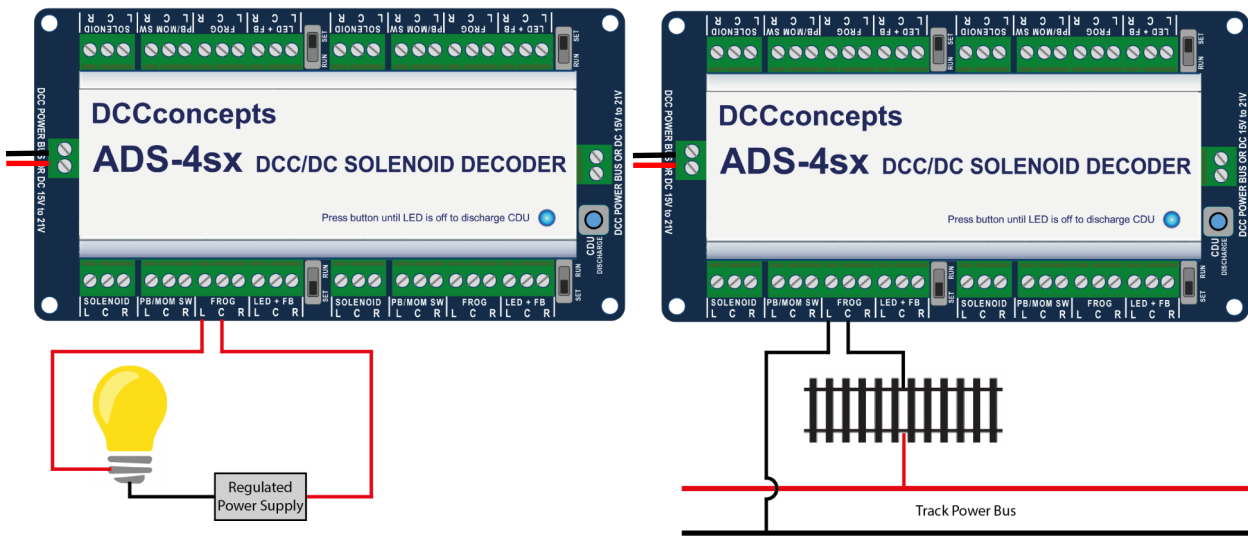
Now just move the SET/RUN switch to **RUN**. You're done!

Digitally Addressable Relays!

Now you're ready to switch almost anything!

Anything you want can now be switched by using a simple DCC accessory command. No additional wiring, no additional switches! A couple of simple examples would be lighting or a track circuit as show below:

Regulated Power Supply

Track Power Bus

In these two examples, setting the accessory to "LEFT" would turn on the light or the track circuit. Setting the accessory to "RIGHT" would turn it off.

It really is **that** easy! You can even change multiple relays together just by giving them the same address!

Of course, as its an SPDT switch, you could wire them as "Either-Or switches too... with Left + common turning one thing on, and Right + common controlling the other

Not only that, but this method is also very cost effective - the DCD-ADS-8sx works out at less than £10 per output at full UK retail price! That is less than **half** the price of DCC relay controllers from other manufacturers!
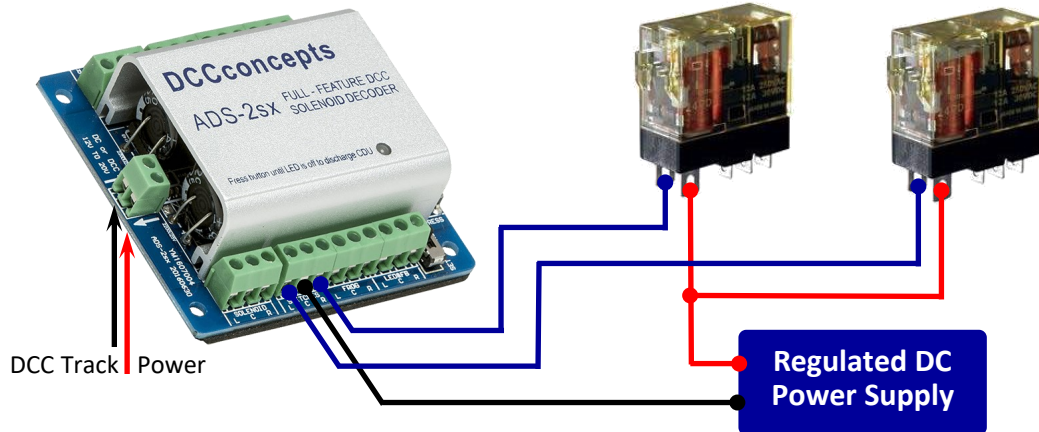
See below for some more ideas of how to take advantage of a **digitally addressable** SPDT relay!

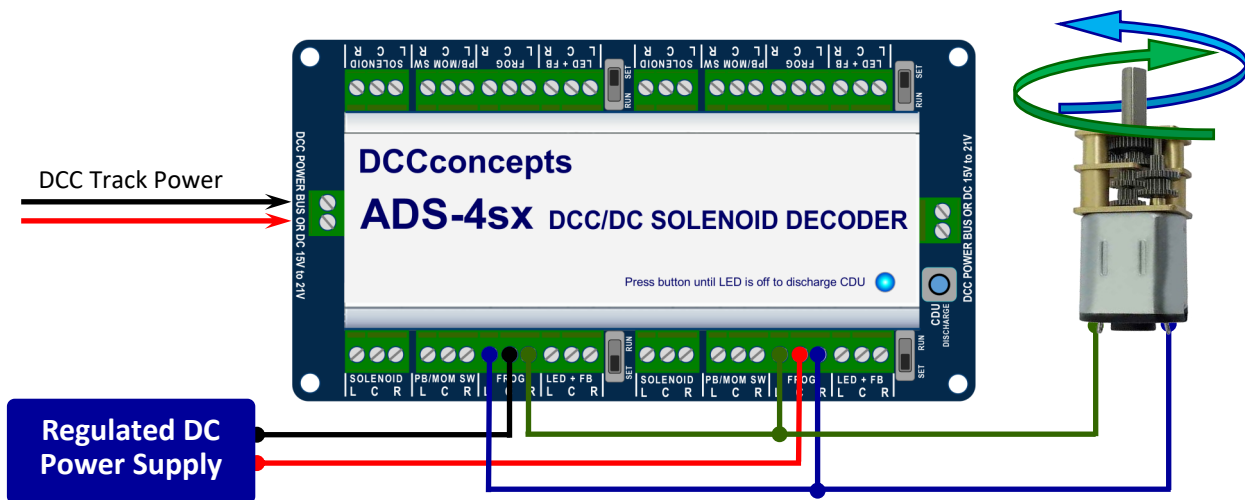*Here's an example of interlocking track sections with **one** output!*

DCC Track Power

Digitally Addressable Relays!
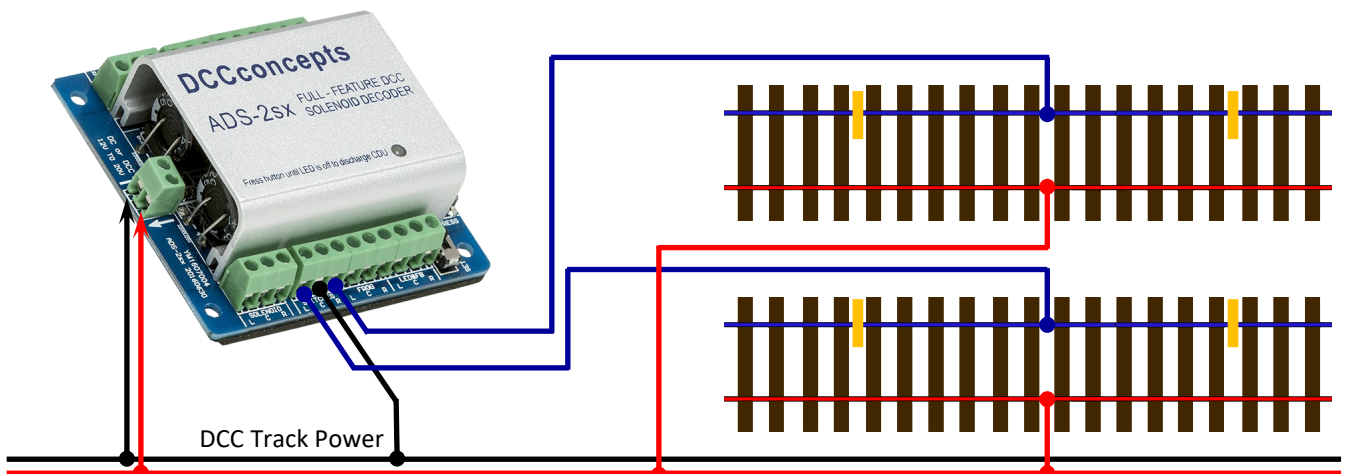
*Here, we see how to power multiple other things with **one** output!*

DCC Track Power

Regulated DC Power Supply

*Finally, an example of control motors **and** direction with **two** outputs!*

DCC Track Power

Regulated DC Power Supply

➤ *The ADS Range of Accessory Decoders*

Don't forget that even though here we are using the ADS as a digitally addressable relay, it remains the best, most powerful DCC Solenoid Accessory Decoder available, with multiple features such as:

- *Powerful CDU discharge output to change up to 2 solenoids per output*
- *CDU dedicated to every output*
- *Individually addressable **per channel** - no need to use consecutive addresses*
- *CDU discharge button to safely discharge the board to avoid any accidents*
- *Indicator LED to show the board has power and is functioning*
- *Panel LED or signal control with an LED output for every channel*
- *Push-button over-ride option for manual control with **super-simple** setup and operation*
- *Power-Off Memory - everything will stay as you left it when you turn off your layout*
- *Friendly customer support - no question is ever "silly" - if you want help, just ask!*

DCD-ADS-2sx

Accessory Decoder CDU Solenoid Drive sx 2-Way with Power-Off Memory and Protective Case.

DCD-ADS-4sx

Accessory Decoder CDU Solenoid Drive sx 4-Way with Power-Off Memory and Protective Case.

DCD-ADS-8sx

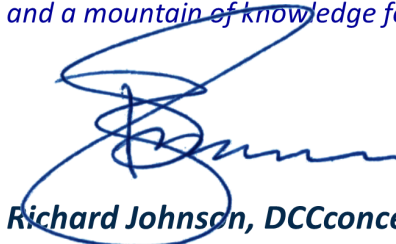Accessory Decoder CDU Solenoid Drive sx 8-Way with Power-Off Memory and Protective Case.

Where can I buy the Accessory Decoders?

You can buy these either direct from DCCconcepts here, or from any of our growing number of dealerships. To see a map of our dealers, click here - maybe there's one near you!

The FOCUS Forum. By the way… if you are not already a Focus Forum member, why not join?

Click here.

You will find a hassle free, informative, supportive forum to participate in, with lots of interesting threads, supportive members and a mountain of knowledge for you to share.

Richard Johnson, DCCconcepts CME