

### Description

The WD8K turnout decoder is a reliable, affordable and easy to use decoder for Kato Unitrack turnouts. The decoder is addressed conveniently at the touch of a button. Complicated CV programming is not required.





The outputs are assigned continuously based on the freely selectable start address. The annoying division into blocks of 4 is no longer necessary thanks to linear addressing.

The decoder outputs are protected against overload and over-voltage.

### Controls and displays

The turnout decoder has two basic operating modes: normal operation and addressing mode. Depending on the active operating mode, the controls perform different tasks, which you can see in the tables below.

The BUSY LED of the decoder is used to display the activated programming mode, a non-existent DCC signal and a received switching command.

	Flashes continuously No valid DCC signal detected
	Lights continuously Addressing mode active
	Brief flash Turnout switched
	Pressing the PROG button puts the decoder into addressing mode.

### Assembly and connection

Attach the decoder to a suitable location using suitable fastening material.

Make sure that the decoder is well ventilated and as easy to reach as possible during connection work. When connecting to the screw terminals, make sure not to tighten them too much to avoid damage.

### Power supply and digital signal

The input connection is made as shown in the illustrations below. The decoder can be powered from the digital track current or separately.

Model railway transformers or DC power supplies with 9-20V output voltage and at least 1A current are suitable for this.

### Switch drives

The switch drives are connected to plugs 1 - 8 as shown in the illustration below.

### ATTENTION!

The decoder is only suitable for connecting switches with motorized two-pole drives!

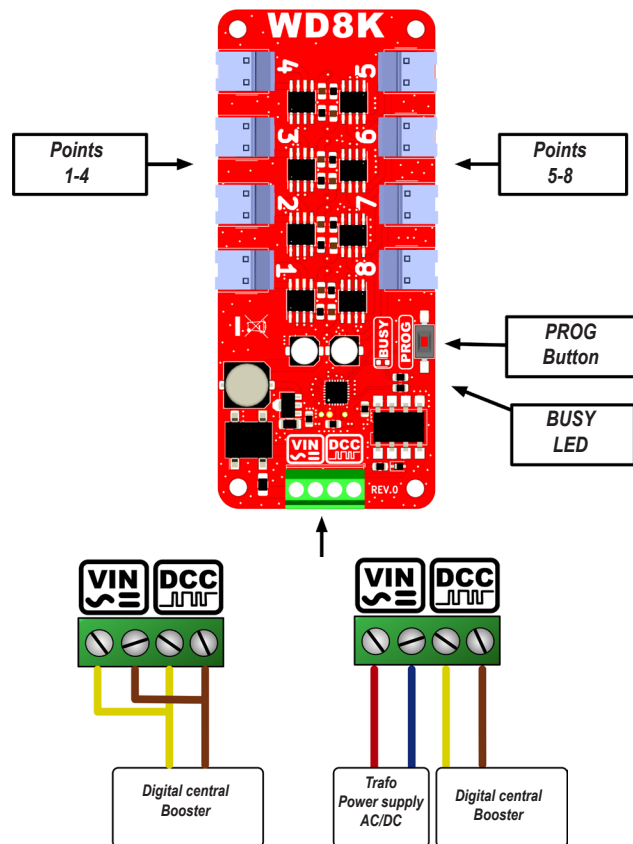
### Programming the decoder address

To assign an address to the decoder, briefly press the PROG button once. The BUSY LED now lights up permanently. Now press a switch button with the desired start address on your control center.

The switch address sent by the control center and those that follow are now consecutively assigned to outputs 1-8.

You can tell that the decoder has been successfully addressed when the LED goes out.

The decoder's addressing is now complete.





The procedure can be repeated at any time by pressing the PROG button.

At the end of programming, check if all connected switches are working.

### Technical data

Digital format :	DCC
Address range:	1-2040
Power supply:	9-20V AC/DC/DCC
Power usage:	20mA in sleep mode / 2100 mA max
Load capacity outputs:	max. 2000 mA
Number of outputs:	8
Size:	92 x 40mm

 WEEE declaration  
Disposal of old electrical and electronic equipment (valid in the European Union and other European countries with separate collection systems). This symbol on the product, packaging or documentation means that this product must not be treated as household waste. Instead, this product should be taken to the appropriate disposal point for recycling electrical and electronic equipment. If the product is disposed of correctly, you will help prevent negative environmental impacts and health damage that could be caused by improper disposal. Recycling materials will preserve our natural resources. For more information about recycling this product, please contact your local town hall, your household waste collection service or the shop where you purchased this product.

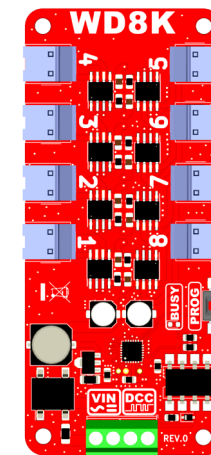
 This product complies with the provisions of the following directives:  
• EU Directive 2014/30/EU on electromagnetic compatibility  
• EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

The EU declaration of conformity and related technical documentation are kept available for inspection by competent authorities.

Modellbahn Union GmbH  
www.modellbahnunion.com / www.dm-toys.de  
Gutenbergstr. 3a - 59174 Kamen Deutschland

### MU-J00001

8-way switch decoder with plugs for Kato switches.



This item is not a toy and may only be installed and operated by qualified persons. Do not operate the device unsupervised! Familiarize yourself with these instructions before installing and operating it. Only connect the device when the system is switched off! If necessary, unplug the transformers. Improper connection can lead to the destruction of the module and other devices! Observe the limits for voltages and currents, specified in the technical data! Trouble-free operation is only guaranteed if these are adhered to. No liability is accepted for damage caused by improper use!

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