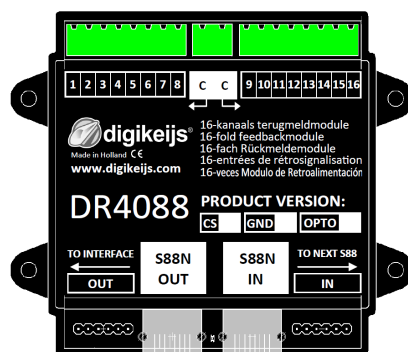


DR 4088xx

Instruction manual

(2018.09.24)



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Please note this manual!

This manual currently contains only the basic information and will be extended step by step. Suggestions, improvements, additions, comments or suggestions are always welcome.

support@digikeijs.com

1.2 Warranty and warranty conditions

All our products come with a 24-month manufacturer's warranty. Please read these operating instructions carefully.

Damage to the product caused by non-compliance with these instructions will invalidate the warranty.

ATTENTION: The warranty is void if the housing of the product is opened.

1.3 Legal information

Printing errors and mistakes, technical or other changes as well as changes in the availability of individual products are expressly reserved.

Data and illustrations are non-binding. All changes to hardware, firmware and software are reserved.

We reserve the right to change the design of the product, the software and / or the firmware without prior notice.

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2.0 Product overview

2.1 General product information

The DR4088xx is a feedback module that can be connected to the central unit via the S88(N)[®].

The DR4088-xx has 16 feedback inputs.

The DR4088xx is available as CS version (current sensor 2-wire track), as OPTO version (connection of reed contacts, 3-wire track signal to track ground) and as GND version (3-wire track).

Important! DR4088GND 3-wire operation:

Due to the H-bridge (track output) in the DR50xx, feedback devices in the DR4088GND version must not be used against track ground, as is usually the case with 3-wire tracks. This inevitably leads to the destruction of the DR50xx.

If a 3-wire driver still wants to drive with the DR50xx and report back against track ground, the DR4088OPTO can be used.

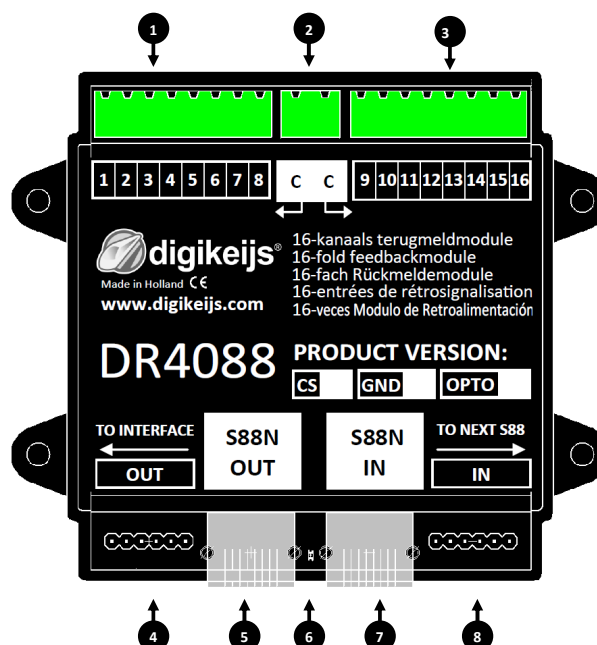
2.2 Technical specifications

The connection terminals of the 16 feedback units are designed for a cross-section of 0.5mm², the two terminals for "C" are designed for a cross-section of 0.75mm².

	Number of inputs	Suitable for	Minimum load for safe reporting	Max. load per contact Load per contact	Max. load per contact Load capacity per contact for max. 100 ms	Peak load for 8 feedbacks at "C" total.
DR4088CS	2 x 8	2 conductors	2 mA	2 A	5 A	6 A an „C“
DR4088OPTO	2 x 8	3 conductors when using the DR50xx	-	-		-
DR4088GND	2 x 8	3 conductors				

2.3 Hardware Overview

- 1 Connection feedback 1 to 8
- 2 Common connection "C" for the right or left detector group.
- 3 Connection feedback 9 bis16
- 4 S88® OUT connection
(continue to the next DR4088xx)
- 5 S88® OUT connection
(to central or previous DR4088xx)
- 6 red LED
(flashing during load or activity at S88N connection)
- 7 S88N® IN connector (standard RJ45 patch cable).
(continue to next DR4088xx)
- 8 S88® IN connection
(continue to the next DR4088xx)



3.0 Programming

First, something fundamental about the S88(N) Bus®:

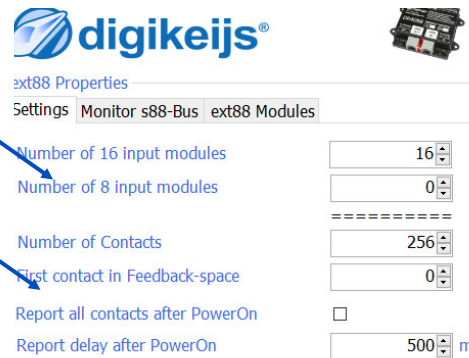
- The S88(N)® bus is a universal bus system.
- The S88(N)® bus supports a maximum of 256 feedback addresses.
- The addresses are always assigned automatically and continuously. No universal and unique addressing is possible because the S88(N)® bus is not designed for individual address assignment!
- The S88(N)® can only be set up as a bus (line) network. This always means from 1. feedback to 2. feedback, etc.

3.1 Programming DR4088xx (Assign start address in DR50xx)

The S88(N)® bus system does not provide programming in the actual sense. It only has to be defined in the central with which address the S88(N)® bus starts and how many modules are located on the bus.

Programming the start address in the DR50xx

1. Start the DR50xx tool.
2. Call up the settings for the S88(N)® bus with the button in the ext88N tool.
3. The start address and the number of modules must now be entered in this input mask.



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ext88 Properties

Settings | Monitor s88-Bus | ext88 Modules

Number of 16 input modules

Number of 8 input modules

Number of Contacts

First contact in Feedback-space

Report all contacts after PowerOn ☐

Report delay after PowerOn m

3.3 Reset DR408xx

Important! The DR4088xx The DR4088xx has no function for resetting to factory settings!
Since no settings or functions are stored in the feedback module, this is not necessary!

4.0 Connection examples

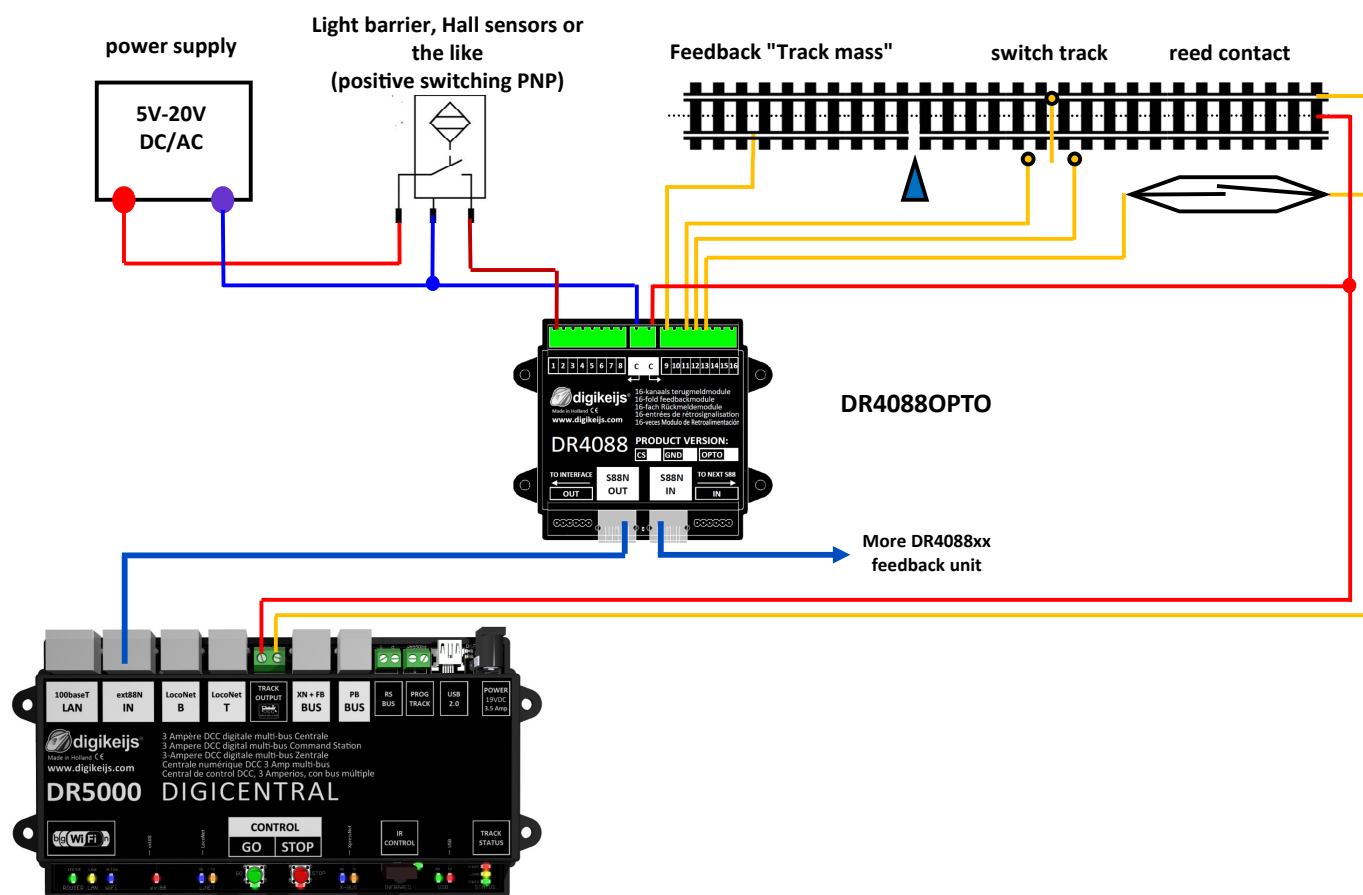
In this chapter you will find some connection examples for the DR4088xx. Please note that we are not able to show all possibilities.

Important! DR4088GND 3-wire operation:

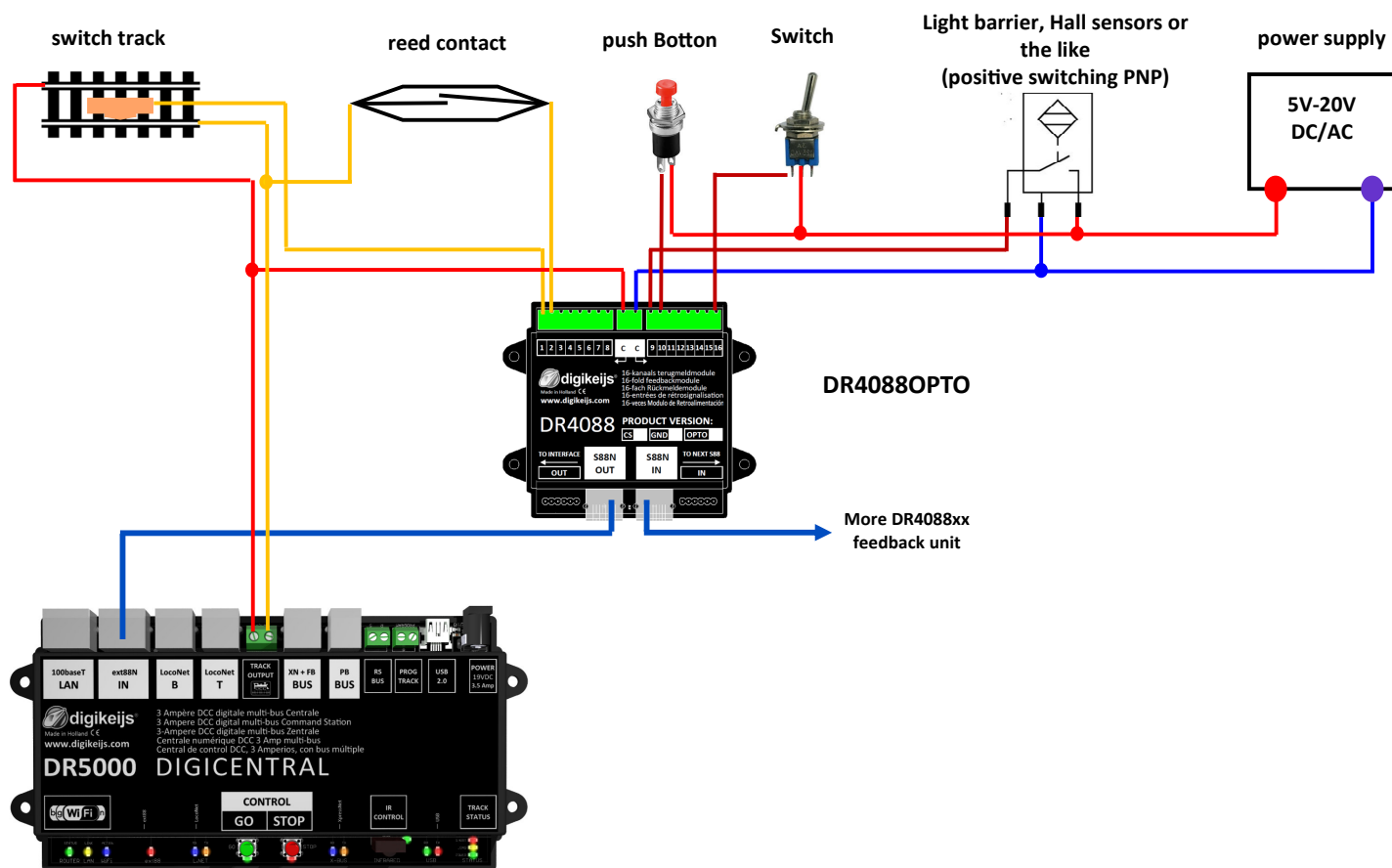
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If a 3-wire driver still wants to drive with the DR50xx and report back against track ground, the DR4088OPTO can be used.

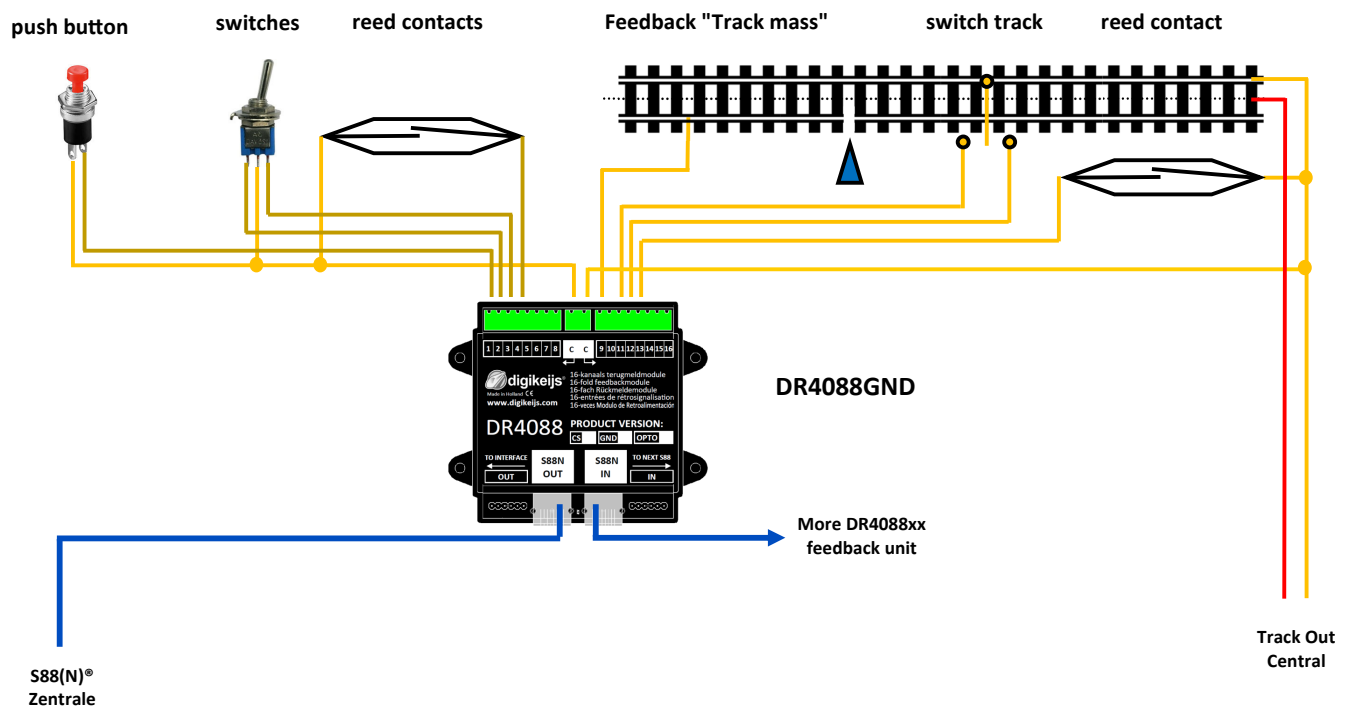
4.2 Feedback modules DR4088OPTO; Hall sensors, 3-wire track



4.3 Feedback modules DR4088OPTO; switch track, 2-wire track



2.4 Feedback modules DR4088GND; switches, buttons, reed contacts



Important! DR4088GND 3-wire operation:

Due to the H-bridge (track output) in the DR50xx, feedback devices in the DR4088GND version must not be used against track ground, as is usually the case with 3-wire tracks. This inevitably leads to the destruction of the DR50xx.

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