

DR5052 Configuration Guide TrainController® Gold from V8

(2021-07-06)



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Acknowledgements:

This guide is provided with the support and in collaboration with
Hartmut Duessmann (FJRDUESER). Many thanks for that!

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

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2.0 Settings General notes

These adjustment instructions do not replace the complete operating manual of the DR5052, but only supplement the existing documentation.

All settings shown here refer to the use of the DR5052 in combination with TrainController® **Gold Ver.8 or higher**.

TrainController® Gold supports the **Fleischmann**® protocol as well as the **Märklin**® protocol. There is **no practical** functional difference **between the two protocols**, as TrainController® addresses the sidings directly.

The manual applies to the DR5052 BASIC, PLUS and PRO variants and requires a DCC system with feedback via the LocoNet® bus.

The 1st siding is **horizontal** with the stage house **to the left**

2.1 Settings of the DR5052 during operation with TrainController®

- 1) Select turntable **type**.
- 2) Select control **protocol "Fleischmann"**.
- 3) Enter the **base address**.
This setting must match the setting in TrainController®.
- 4) Select controller **type** for the turntable.
- 5) Enter **feedback** number for turntable platform occupied.
- 6) If desired, enter the Railcom® detector for the turntable platform.
- 7) Enter **feedback** number Platform has stopped.
- 8) Enter track **connections** in DR5052 as required.
The track connections must be marked with the assigned addresses in TrainController®.
(see following page).

The screenshot shows the configuration window for the DR5052 turntable. The 'Allgemein*' section contains the following settings:

- Drehscheibentyp: Fleischmann N
- C Typ:
- Stände: 48
- Steuerprotokoll: Fleischmann
- Basis-Weichenadresse: 200
- 1. Weichenmoduladresse: 1
- Kontrollertyp: DR5052 Basic

The 'Bühnenrückmeldung' section contains the following settings:

- Bühne-belegt Rückmelder: 105
- Bühne-belegt Block (RailCom): 106
- Bühne: **angehalten** Rückmelder: 107
- Bühne-Nothalt Rückmelder: 108

Below the settings is a circular track diagram with 30 numbered sidings. A blue arrow points to siding 1, which is the horizontal siding to the left of the stage house.

2.2 Settings of the turntable in TrainController®

- 1) Select **Fleischmann®** Turn-Controll.
- 2) Select **LocoNet®** digital system
- 3) Enter the **base address** of the DR5052.

Attention!

Since TrainController® cannot handle the address 200 for Turn according to the Fleischmann protocol, the address must be entered in TrainController® by +1 to 201.

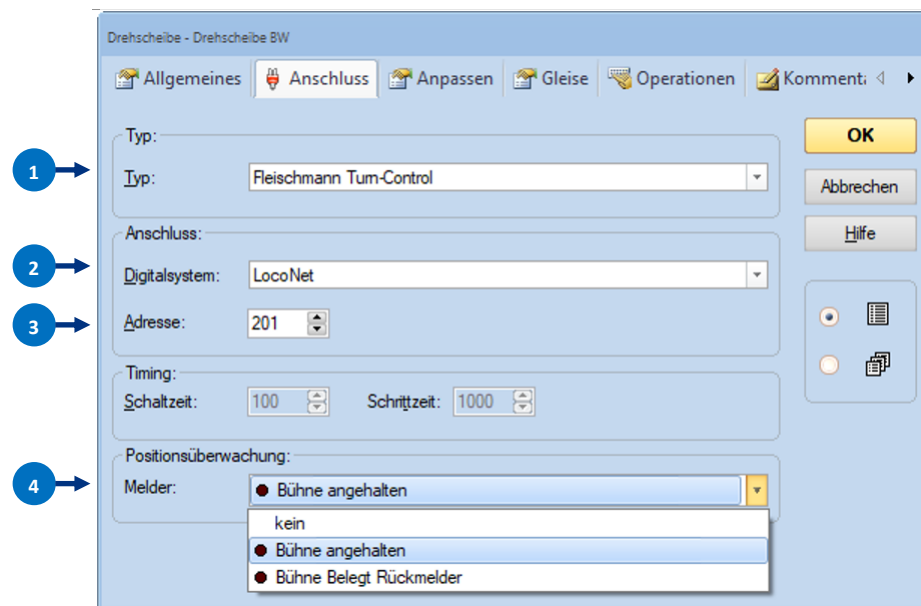
- 4) Integration of the stage Stopped detector in the turntable

Note :

If a detector is entered in the position monitoring, the circulation time is only used for optical display in the interlocking/turntable window and no longer for track release

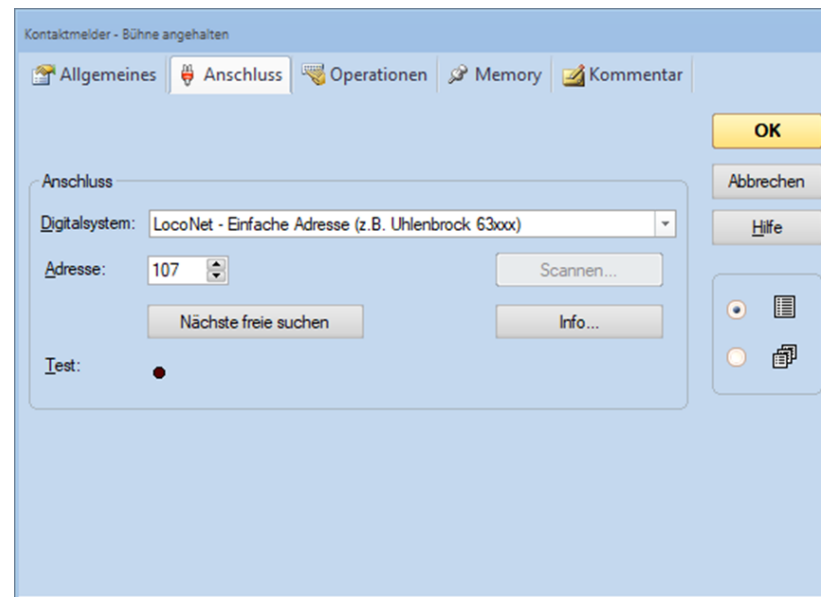
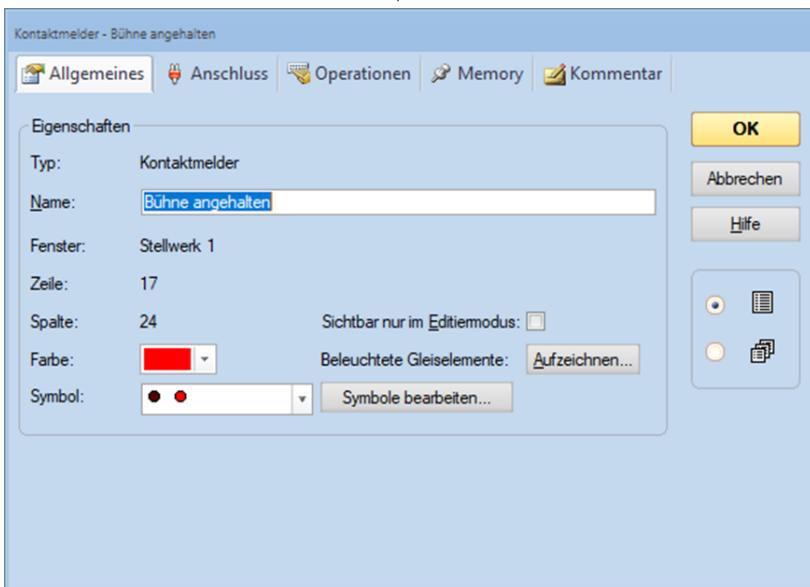
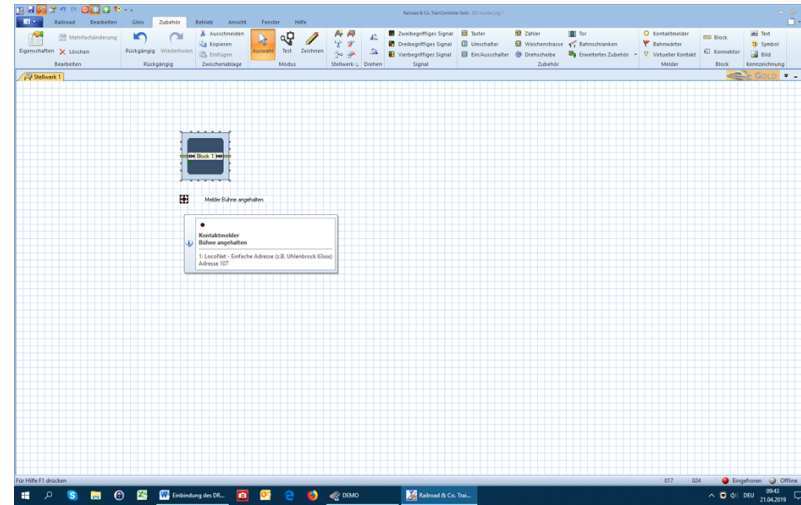
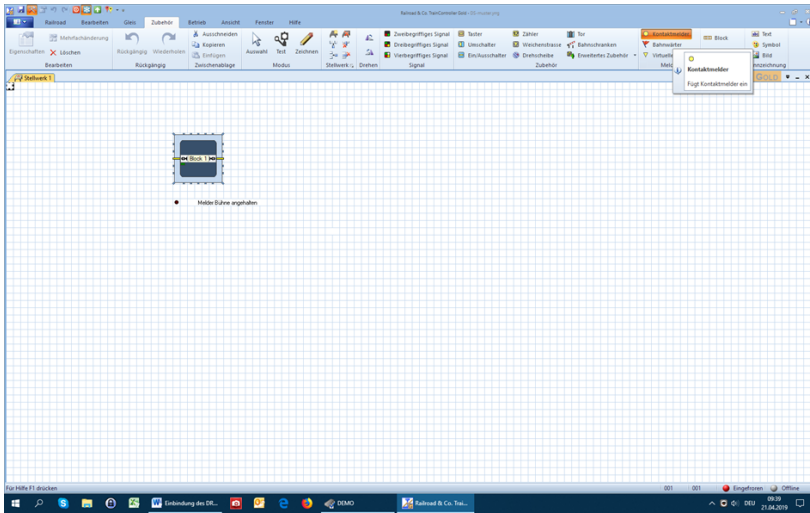
The **Railcom®** feedback devices on the turntable stage and the stage emergency stop Feedback devices are not supported by TC and **cannot** be registered.

The installation of a DUMMY Railcom block in the interlocking is not recommended, as the LOK in the interlocking can visually jump off the stage (Railcom® detection).



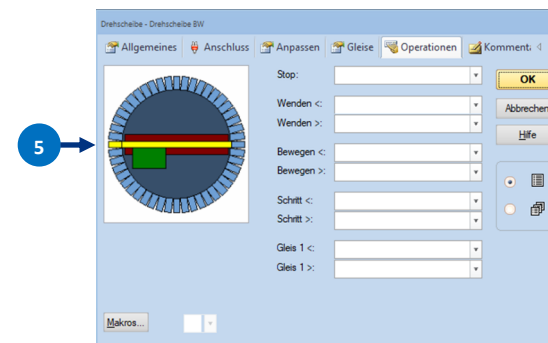
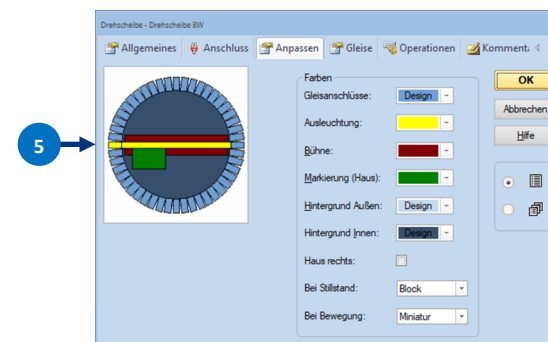
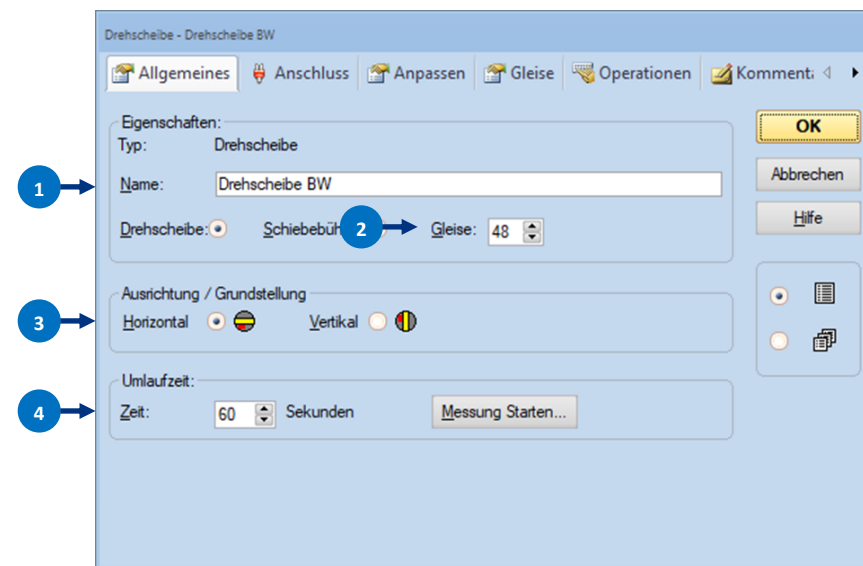
2.3 Create contact detector "stage stopped" in TrainController.

Create dialog to call the contact detector and create the contact detector for Stage Paused. The exact procedure can be found in the documentation of TrainController®.



2.4 Basic setting of the turntable in TrainController®

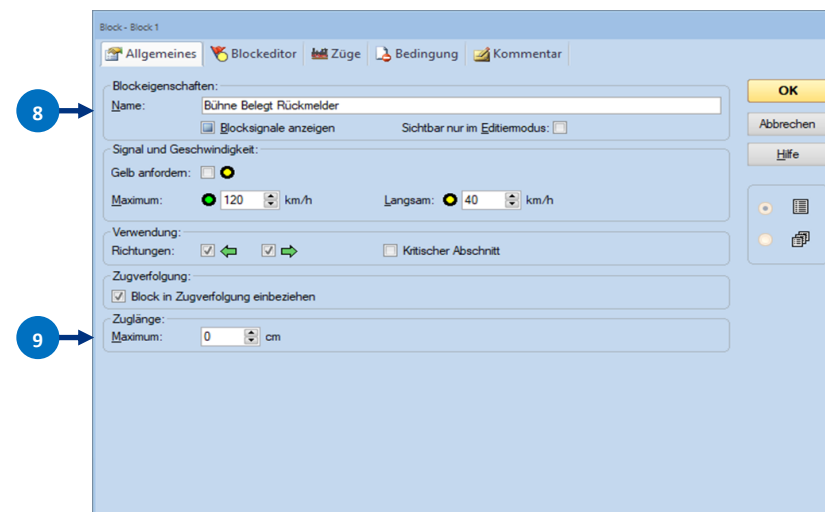
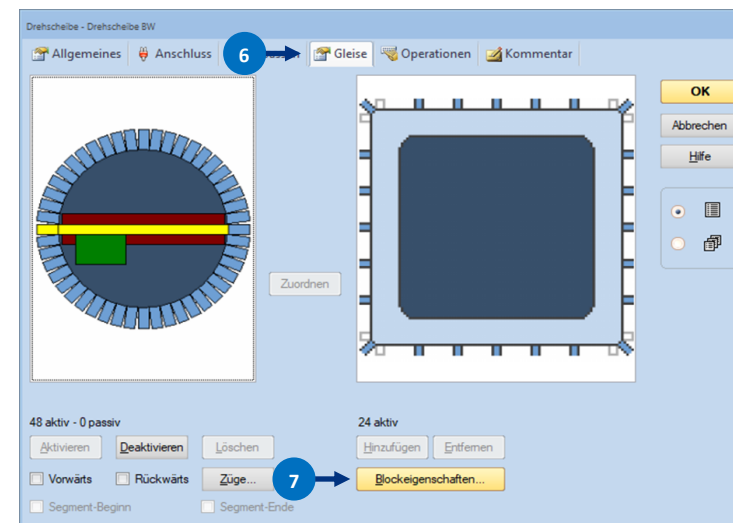
- 1) **turntable name**
- 2) **Always 48 tracks!**
- 3) Define the **basic position** of the DS.
- 4) **Circulation time** for optical adjustment of the TC DS window.
(If a detector is entered in position monitoring, the circulation time is only used for optical display in the interlocking/turntable window and no longer for track enabling!)
- 5) **No changes** are necessary in these two dialogs.



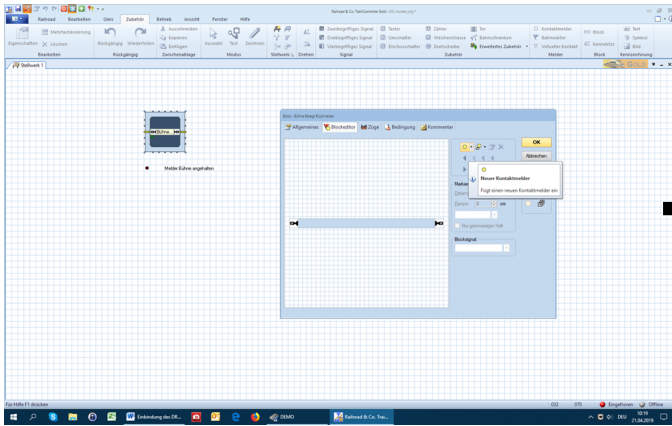
2.5 Stage occupied Insert feedback unit

The exact procedure can be found in the documentation of TrainController®.

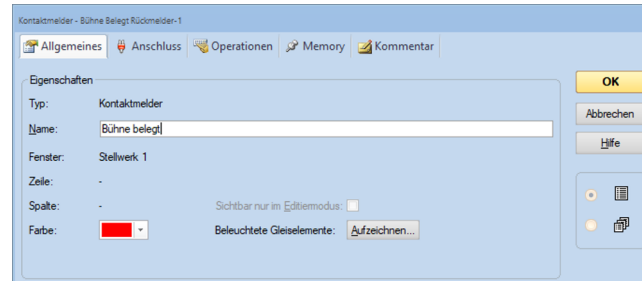
- 6) Call the **Track dialog**.
- 7) Call **block** properties.
- 8) Enter **detector name**
- 9) **Train length** = turntable platform length



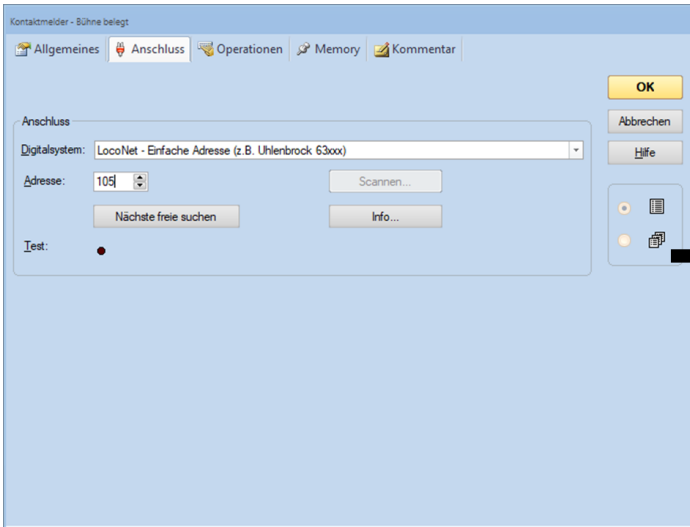
Call dialog.



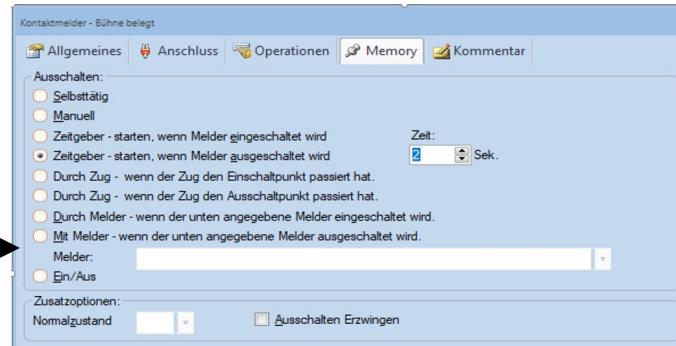
Assign names.



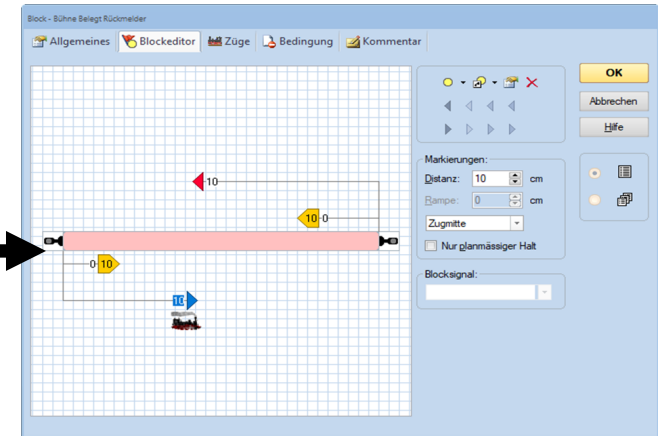
Enter the feedback number assigned in the DR5052 tool.



Memory on 2 sec. digits.
(Debouncing of short locomotive contact faults.)



Set brake and holding markings to pull center.



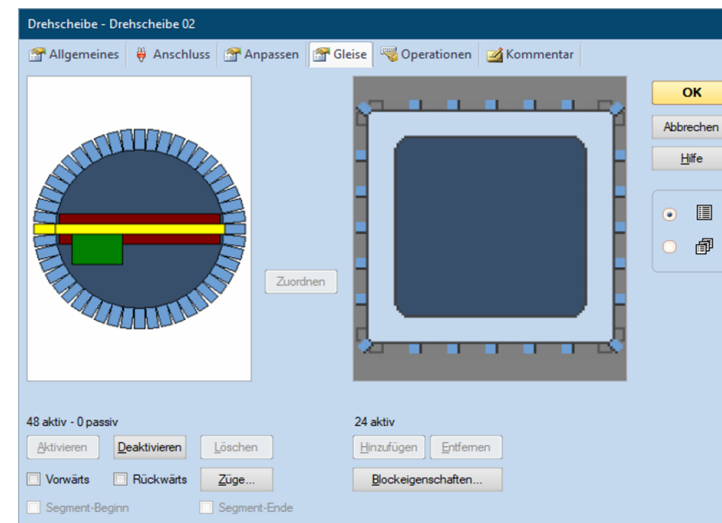
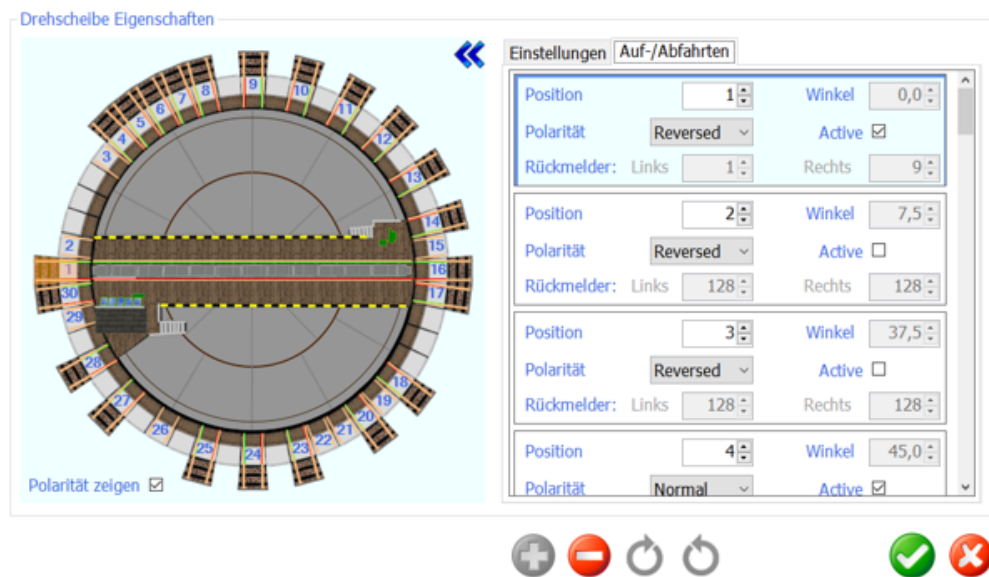
2.6 Creating the sidings in the DR5052 and in TrainController®

For every existing siding, a so-called ACTIVE track must be set up.

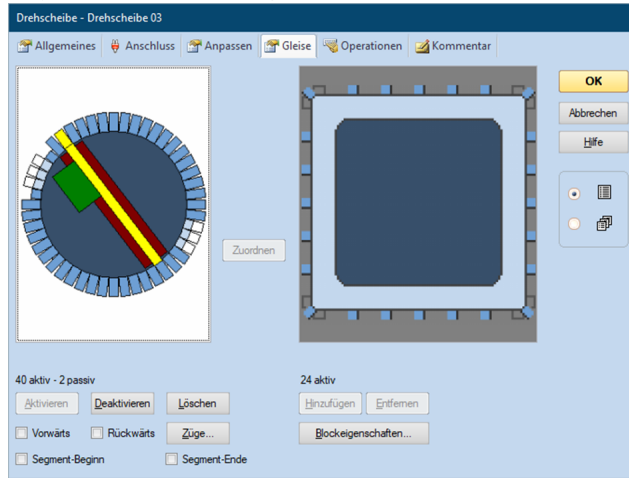
Attention!

If there is no active track on the opposite side of an active track, a passive track must be inserted there. In this example, tracks 2, 3, 15, 19, 21, 22, 26, 29 are passive (**hook active removed**). The polarity of the exit tracks is irrelevant for TC.

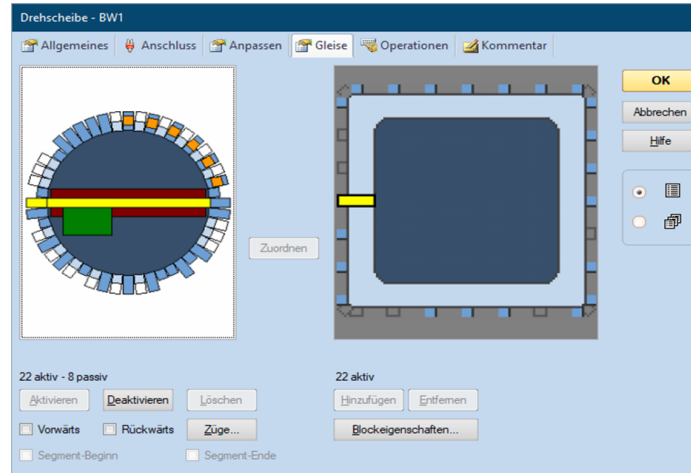
Call up the turntable dialogue in TC.



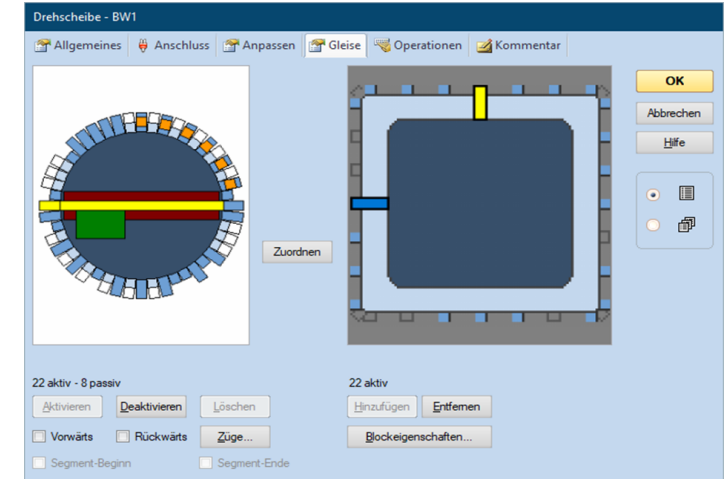
Left window:
 Deactivate siding passive
 Delete Railway siding not available
 (Adjustment of the sidings with the DR5052.)



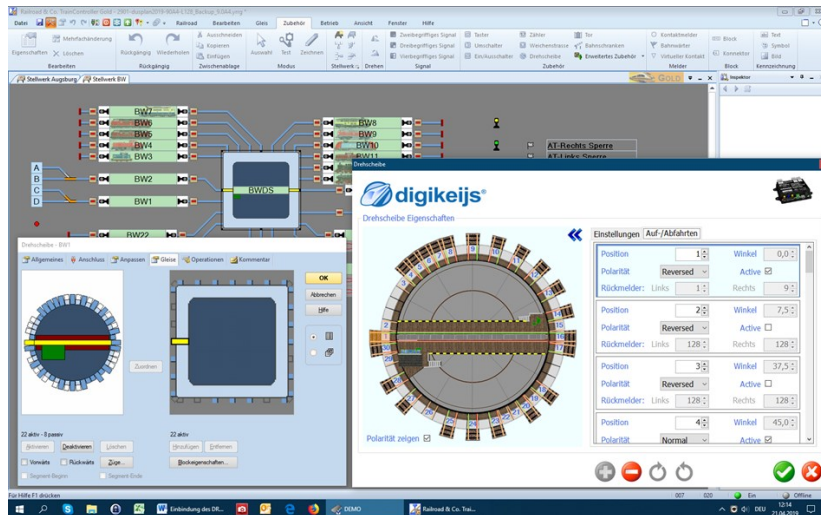
Right window:
 Also assign 22 disposals to the 22 active tracks.



Assign track 1= left window on track1 , right window on blue track 1 and then click on Assign in the middle.
 This must be the same as track 1 in DR5052!



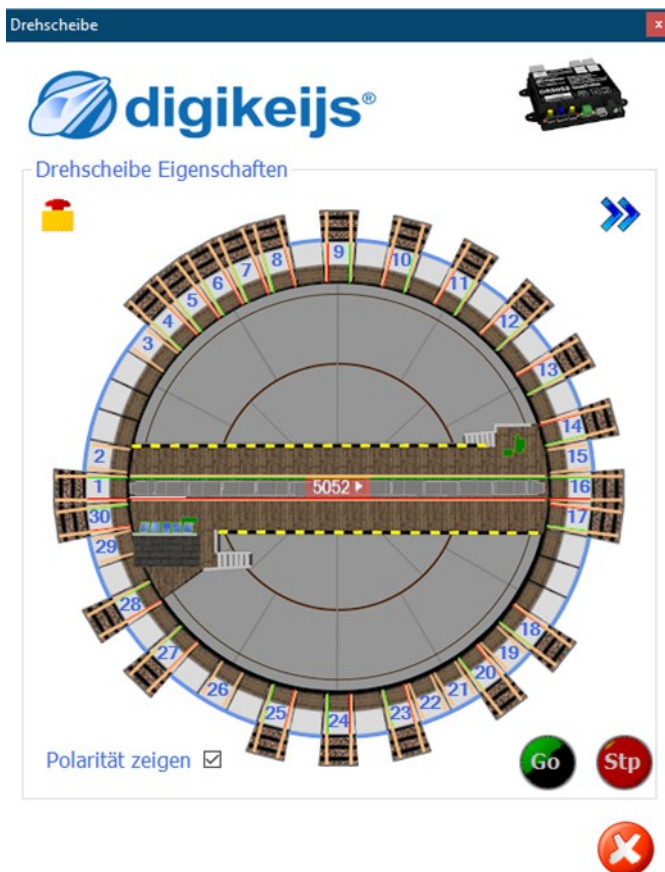
Zuordnung fertig gestellt und Ergebnis in TC und im DR5052.



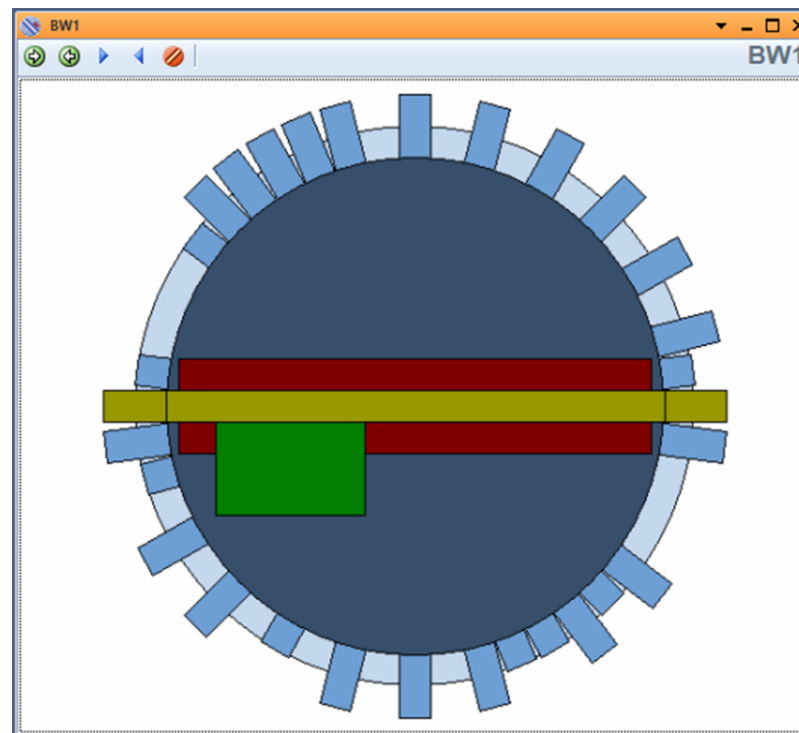
Please refer to the current TrainController® documentation for the exact procedure for assigning track sidings in TC.

2.7 Adjustment turntable between DR5052 and TrainController®

1. Adjust the turntable to DR5052, so that when you click on track 1 in the DR5052 tool, the turntable also turns on track 1.




2. Click on any track in the TC turntable window. The DS-Tool window and the turntable should now rotate to the desired position.



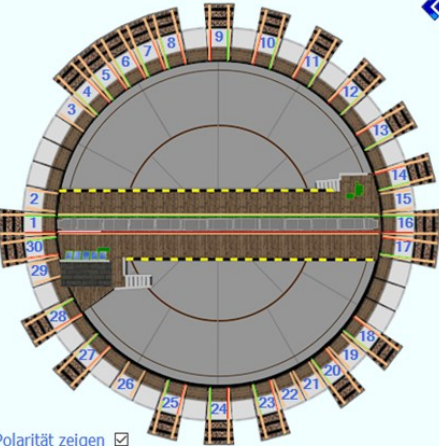
2.8 Differences in Märklin® Protocol

All settings that are not shown here are equal to the Fleischmann mode.

Drehescheibe



Drehescheibe Eigenschaften





Polarität zeigen

Einstellungen Auf-/Abfahrten

Algemein*

Drehescheibentyp	Fleischmann N
C Typ	<input checked="" type="checkbox"/> Stände 48
Steuerprotokoll	Märklin
Basis-Weichenadresse	225
1. Weichenmoduladresse	1
Kontrollertyp	DR5052 Basic

- Bühnenrückmeldung
- Bühnenkontroller
- Bühnenparameter

Drehescheibe - BW1

Allgemeines Anschluss Anpassen Gleise Operationen Kommentar

Typ: Märklin Digitale Drehescheibe 7686 und Kompatible

Anschluss: Digitalsystem: 2: LocoNet Adresse: 225

Timing: Schaltzeit: 100 Schrittzeit: 1000

Positionsüberwachung: Melder: ● BWDS Pos 85 / 2

OK Abbrechen Hilfe

3.0 Attachment

3.1.1 Comparison of Märklin® protocol and functions in the DR5052

Adr.	Key Function	Function Märklin® Protocol	Function with DR5052
225	red	End of programming	unused
	green	Start programming	unused
226	red	Clear 180°	Emergency stop
	green	Turn	Rotation 180° degrees
227	red	clockwise step	Step (Step) in clockwise direction
	green	Counter clockwise step	Step (Step) counter clockwise
228	red	Turn clockwise	Clockwise direction preselection
	green	Rotate counter clockwise	Counter clockwise direction preselection
229	red	Connection 1	rail connection 1
	green	Connection 2	rail connection2
230	red	Connection 3	rail connection 3
	green	Connection 4	rail connection 4
231	red	Connection 5	rail connection 5
	green	Connection 6	rail connection 6
232	red	Connection 7	rail connection 7
	green	Connection 8	rail connection 8
233	red	Connection 9	rail connection 9
	green	Connection 10	rail connection 10
—	—	—	—
	—	—	—
240	red	Connection 23	rail connection 23
	green	Connection 24	rail connection 24

3.1.2 Comparison of Fleischmann® protocol and functions in the DR5052

Adr.	Key Function	Function Märklin® Protocol	Function with DR5052
200	red	Turn 180° clockwise	Turn 180° clockwise
	green	Turn 180° counter clockwise	Turn 180° counter clockwise
201	red	Track connection 1 with bridge house at the connection	Track connection 1 with bridge house at the connection
	green	Track connection 1 without bridge house at the connection	Track connection 1 without bridge house at the connection
202	red	Track connection 2 with bridge house at the connection	Track connection 2 with bridge house at the connection
	green	Track connection 2 without bridge house at the connection	Track connection 2 without bridge house at the connection
203	red	Track connection 3 with bridge house at the connection	Track connection 3 with bridge house at the connection
	green	Track connection 3 without bridge house at the connection	Track connection 3 without bridge house at the connection
204	red	Track connection 4 with bridge house at the connection	Track connection 4 with bridge house at the connection
	green	Track connection 5 without bridge house at the connection	Track connection 5 without bridge house at the connection
—	—	—	—
	—	—	—
248	red	Track connection 47 with bridge house at the connection	Track connection 47 with bridge house at the connection
	green	Track connection 47 without bridge house at the connection	Track connection 47 without bridge house at the connection
249	red	Track connection 48 with bridge house at the connection	Track connection 48 with bridge house at the connection
	green	Track connection 48 without bridge house at the connection	Track connection 48 without bridge house at the connection