

# Accessories

Everything that your model railway desires!

# Roco





INTERCARGO  
SCANDINAVIA AS

TXLEITWOLF

... bringt das "Rudel" sicher ans Ziel.





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## Dear ROCO fans,

as well as highly detailed and engineered models from Epoche I up to the latest trains, ROCO offers a wide range of products.

From steam engines to diesel trains to the latest ICE or Railjet, no wish will be left unfulfilled. The range also includes a reliable selection of accessories, platforms and the latest steering technology, such as the Z21 system. This catalogue gives you an overview of our programme's broad spectrum.

Our team is available for any questions you might have either in our customer service department or at our public expos. Your specialist retailer can always provide you with competent advice about deliveries and technical issues.

Have fun browsing!

## Your ROCO team







**DIGITAL**

## Digital control centre Z21

The Z21 digital control centre connects your model railway system, your digital locomotives and wagons via WiFi to your tablet, smartphone or the Z21 wlanMAUS. No additional networking knowledge is needed for this. You can extend your Z21 digital control centre easily due to the large number of interfaces. This also makes it the ideal basis for PC-based automation.

The Z21 is a complete Plug & Play System consisting of:

- Digital control centre Z21
- Z21 app for control of all system components
- Power supply
- WiFi router

**Z21**  
www.z21.eu



10820

10822 US version

## Z21 multiMAUS

The Z21 multiMAUS is a digital control centre that enables you to control your trains, use digital functions, switch points and signals and much more. The clear design in combination with easy operation handling makes the multiMAUS a benchmark in the field of digital model train control systems and not just for digital beginners. Digital professionals also can profit from a large variety of advanced functions so that they can drive their locomotives absolutely true to the originals.



10810

10813

### Possibilities

- ▶ 64 locomotives with 5-character names
- ▶ Up to 29 functions can be activated per locomotive
- ▶ Up to 1024 magnetic items switchable
- ▶ Write and read configuration variables (DCC CVs)

## Z21 wlanMAUS

Control unit with many operation functions. Several Z21 wlanMAUS can be simultaneously operated – possible with all Z21 systems (z21 start combined with WiFi Package 10814, 10818). The Z21 wlanMAUS gives you wireless freedom around your layout.

### The Z21 wlanMAUS also offers:

- ▶ Wireless freedom through WiFi transmission
- ▶ 29 functions per locomotive
- ▶ 100 locomotive addresses can be stored in the database and can be assigned with names (up to 10 digits)
- ▶ Operated with commercially available standard batteries (3 x AAA, not included in the delivery)
- ▶ Up to 2048 magnetic items switchable



Further information:

[www.z21.eu](http://www.z21.eu)

# The Z21 system

for novices and experts

**z21 start**  
Available in start set



without WiFi Package

Combination with  
z21 WiFi Package  
10814/10818



**z21**  
Available in start set



incl. WiFi router

**Z21**  
10820



incl. WiFi router

Plug & play system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 X Bus connection on the front side	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1 X Bus connection on the backside	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
For digital DC and AC locomotives (DCC and MM)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
POM programming, POM readout, CV programming and CV readout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B-Bus and R-Bus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Configurable with Maintenance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Regulation with comfortable Z21 app and diverse hand held controller	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photorealistic driver's cab on Android table and iPad	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LocoNet and sniffer Bus connection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CAN Bus - allows comfortable configuration of new Z21 components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adjustment options for track voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Separate programming track output with Zimo decoder update procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## z21 WiFi Package

10814

The z21 WiFi package contains a preconfigured router and the activation code for the z21 start. This way the z21 start can accept commands for locomotives and turnouts via the WiFi interface and process them. System requirement is a Windows PC or notebook as well as an existing Internet connection.

FOR **z21 start**



## z21 unlock code

10818

The z21 activation code is required if you already have your own router. Please note that extended network knowledge is necessary for this purpose.

FOR **z21 start**





10805

## Z21 light BOOSTER

- ▶ Power 3 A (track output)
- ▶ RailCom\* cutout (allows use of RailCom\* track occupied detector)
- ▶ Terminal loop feature with short-circuit detector
- ▶ Connection via B bus



10806

## Z21 single BOOSTER

- ▶ Power 3 A (track output)
- ▶ Adjustable track voltage (12 V–24 V)
- ▶ RailCom\* global detector
- ▶ Terminal loop feature with short-circuit detector
- ▶ Brake generator feature configurable
- ▶ Connections via CAN bus, B bus, CDE bus
- ▶ Configuration and update simply by app or PC via CAN



10807

## Z21 dual BOOSTER

- ▶ Power 2x 3 A (track outputs)
- ▶ Voltage can be set for both track outputs separately via app or PC via Z21 (12–24 V)
- ▶ RailCom\* global detector
- ▶ Terminal loop feature can be separately configured by means of short-circuit detector
- ▶ Brake generator feature can be separately configured for both
- ▶ Connections via CAN bus, B bus, CDE bus
- ▶ Configuration and update simply by app or PC via CAN



10804

## Z21 CAN HUB

- ▶ Additional 2 A power supply for CAN BUS
- ▶ 3 CAN outputs
- ▶ 1 Z-CAN output with booster signal amplification
- ▶ Ideal for large track layouts with many CAN users
- ▶ Including a connecting cable for CAN bus

10851

Suitable power supply 54 W (see page 10)

10851

Suitable power supply 54 W (see page 10)

10857

Suitable power supply 120 W (see page 10)

10850

Suitable power supply 36 W (see page 10)

## Z21 DETECTOR

10808



- ▶ Track-occupied detector for 8 sections
- ▶ Occupied message by means of power monitoring of track sections
- ▶ RailCom\* detector for loco identification
- ▶ Connection via CAN bus and R bus
- ▶ Configuration and update simply by app or PC

## Z21 DETECTOR x16

10819



- ▶ Track occupancy sensor for 16 track sections
- ▶ Occupied signal is triggered by the power monitoring of the track sections
- ▶ Connection via R-Bus
- ▶ Configuration via buttons or POM CV programming

## Z21 multi LOOP

10797



- ▶ Ideal for terminal loops, triangular junctions and turntables
- ▶ Compatible with RailCom\*
- ▶ Operated by short-circuit detector, switching contacts or sensor tracks
- ▶ Compatible with DCC, MM and analogue mode



10789

## Z21 CDE Booster Adapter

The Booster Adapter allows to connect up to 15 boosters with CDE interfaces to the booster bus. An X-bus port is provided to supply voltage to the adapter. Status LEDs display the 12-V supply as well as an active CDE end stage; besides, the adapter has an overcurrent or short-circuit protector at the CDE output.

The booster adapter can be used on the following central units or amplifiers:

- ▶ Digital amplifier (10764)
- ▶ multiZENTRALE<sup>PRO</sup> (10832)
- ▶ z21 and z21 start
- ▶ Z21 (10820, 10822)



10775

## 8-fold turnout decoder DCC

The turnout decoder can switch up to eight turnouts. If light signals are used, one needs one double-spool relay (Item no.: 10019) per signal. All outputs are short-circuit proof. Overall, the decoder can be loaded with up to 2 Ampere; this also applies to every single connection for the period of one second!

The address range is between 1 and 256. The connection is made with two cables onto the two rail profiles.

If a high output is required, of course it is possible to create one's own supply network, which is supplied out of a booster of its own.



10851

## Switching power supply 54 Watts

Power supply for the digital control centre Z21 (10820), digital amplifier (10764), multiZENTRALE<sup>PRO</sup> (10832) und digital booster (10765).

- ▶ Overload fuse, short circuit proof, back feed protection

### Technical data:

Input voltage: 230 V ~  
Output voltage: 20 V =  
Output current: 3 A



10857

## Switching power supply 120 Watts

- ▶ Short-circuit protection against overload, overvoltage and overtemperature
- ▶ Perfect with the Z21 dual BOOSTER (10807)

### Technical data:

Input voltage: 100–240 V ~  
Output voltage: 20 V =  
Output current: 6 A



10850

## Switching power supply 36 Watts

- ▶ Power supply for the Z21 CAN HUB (10804) and z21 start
- ▶ Overload fuse, short circuit proof, back feed protection



96308 US version

## Switching power supply 18 V/4 A

## Connection cables for digital components

10754



### Highly flexible 6-pole spiral cable

Connection between multiMAUS 10810 and 10820, 10822, 10815, 10764. Suitable for the FLEISCHMANN multiMAUS from the digital Starter Sets. Length approx. 2 m

10756



### 6-pin data bus replacement cable

The cable is a replacement cable for the Lokmaus 10760, 10792, multiMAUS 10810, FLEISCHMANN multiMAUS, turnout keyboard 10770 or RouteControl 10772. Length approx. 2 m

10757



### Booster connection cable

Spare cable for connecting boosters (10765, 10789, 10805, 10806, 10807) with:

- ▶ Digital amplifier (10764)
- ▶ Digital central power unit (10820, 10822, z21)
- ▶ Brake generator (10779)
- ▶ Connecting the boosters mentioned above among each other

10758



### 4-pin data bus distributor module

To connect further input units (for example Lokmaus or multiMAUS). This distributor module can also be used as an extension of existing lines to units on the slave output.

Note: The cable of the Master Lokmaus should not be extended in order to avoid impairing the quality of the data transmission.



10764

### Digital amplifier

The amplifier provides two direct connections ('master' & 'slave') for a multiMAUS and, for example, another mouse. The amplifier prepares the 'Master mouse' data for running and switching operation.

50 VA power in combination with transformer 670601, 10851.

The track output delivers 3.2 A.

Dimensions 115 x 122 x 40 mm



10765

### Digital booster

Additional amplifier to 10764 for the supply of larger systems. The 10764 amplifier should not be used as a booster for safety reasons. Power max. 3.2 A. A maximum of four boosters are used per system, or more in combination with the brake generator 10779.

50 VA power in conjunction with transformer 670601 or 10851.

Maximum current 3.2 A at the track exit.

10753



### CAN BUS Cable

For connecting Z21 CAN devices.

136100



### Z21 Loconet Slave cable

A special cable that allows to use the Z21 as Loconet Slave on another central control unit.



## All advantages at one glance

- ▶ Wireless controlling via tablet, smartphone, and the wlanMAUS
- ▶ High-capacity administration for a large rolling stock (up to 9999 locomotive and 2048 turnout addresses)
- ▶ Open multi-protocol centre supporting DCC and Motorola® formats
- ▶ Upgrade for already existing digital layouts through downwards-compatibility, i.e. multiMAUS, Lokmaus 2, multiMAUS<sup>pro</sup> etc.
- ▶ Read out values and get feedback of locomotives and switches via RailCom\*
- ▶ Save and reload locomotive data with the import and export function
- ▶ Possibility to update software & sound of ZIMO sound decoders

## Photorealistic driver's cab

Converting or upgrading to digital model railways will reward you with many advantages. To be able to drive the locomotives as the driver himself is just one of the features which will make your eyes light up. As the locomotive driver, be amazed by the photorealistic views of the driver's cabs, which are equipped with original switches, controls from the relevant locomotive model, and interactive functions. Every control-related button and lever can be selected and provides the relevant action for your locomotive model. The Z21 app covers 8 individual driver's cabs starting with the driver's cab of the Re 4/4 up to NS 1200, which are just waiting to be controlled by you. Because digital locomotive driving also needs practice to achieve mastery. Please note that the driver's cabs are only available on iOS and Android devices.

Driver's cab of NS 1200



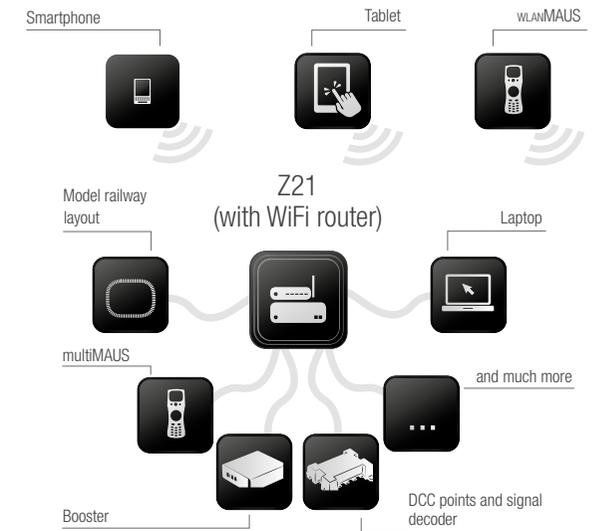
Driver's cab of Re 4/4



- ① Main switch
- ② Locomotive brake
- ③ Car brake
- ④ Direction switch
- ⑤ Whistle
- ⑥ Emergency stop
- ⑦ Train front light
- ⑧ Fan
- ⑨ Pantograph
- ⑩ Brake line pressure

## Z21 operating mode

The Z21 digital control centre connects your railway system and your digital locomotives with your tablet and smartphone via Wifi.



The Z21 system is compatible with many well-established PC-based model railway controllers. Furthermore the system is perfectly suited to control your garden railway.



Just by optimizing and updating the already known and well-proven Z21 app, you will discover many new functions and possibilities, which will allow you to create and experience your digital model railway world in even more exiting ways.

The Z21 app allows you to create a detailed library of locomotives. Here you can easily add all locomotive-specific data, as well as main control information (such as, e.g., locomotive address, speed levels, locomotive functions and maximum speed). In addition the Z21 system also supports automatic synchronisation with multiple input devices (such as, e.g., multiMAUS and Z21 app). This opens up the path to your locomotive and model railway enjoyment.

**Smartphone view**

3 pages for locomotive functions

Conversion to original speed

Driving controller with haptic feedback at 0% and 100%

Function buttons with image and description

Clear overview of locomotives with names and addresses as well as image

**Tablet view**

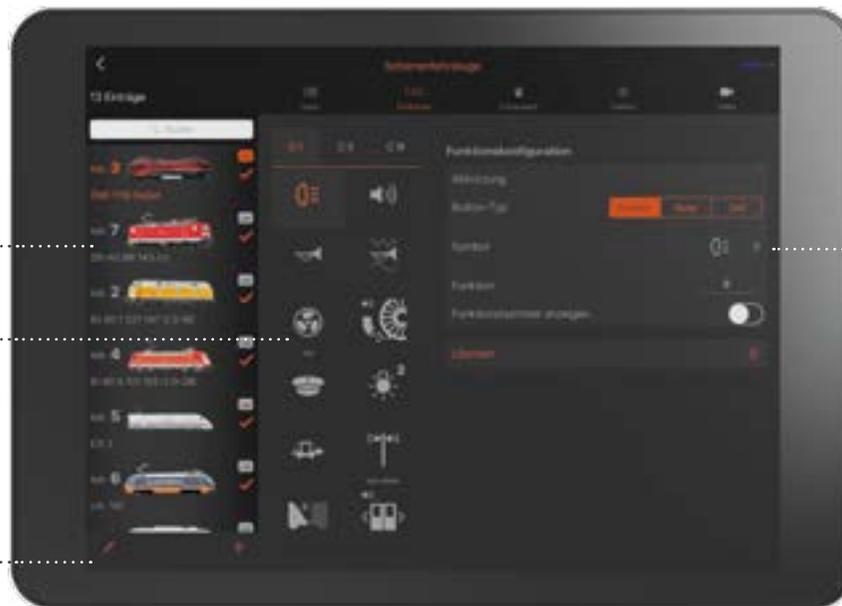
Control of the platforms, signals, etc.

Routes

Switching between the various parts of the system

Full screen mode

**Download from the app store for iOS or in Google Play for Android!**  
 The app is available as a free download and can also be tested without the Z21 system.



Data: Basic data of the locomotive such as name, pictures, address and decoder type

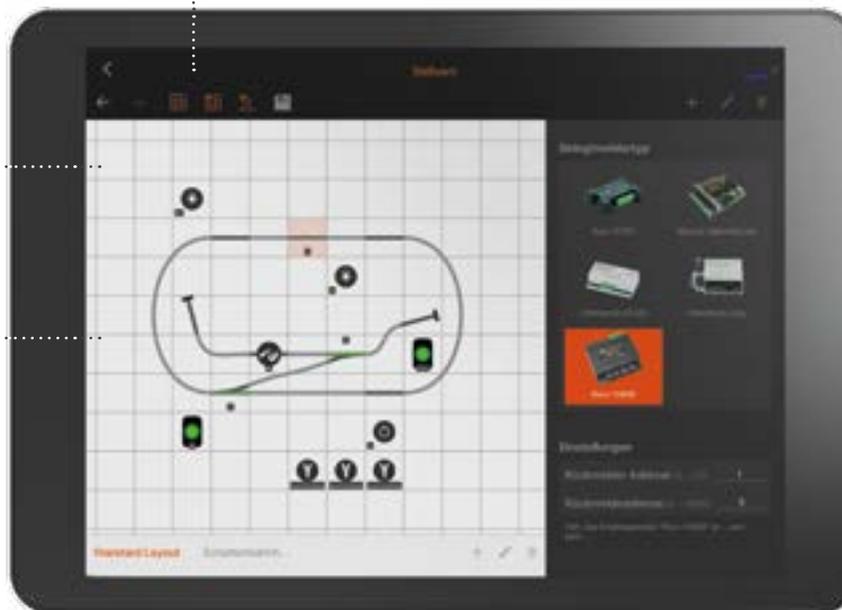
There is a choice of many symbols

Additions are made via the locomotive database: All Roco sound models after 2015 can be imported

Easy customization of the functions and short description

- ▶ DCC and Motorola\*\* formats individually adjustable for each locomotive and magnetic article
- ▶ Read out and get feedback of locomotives via RailCom\*
- ▶ Save and reload database and layout with the import- and export-function
- ▶ Wireless controlling via tablet and smartphone and the WLANMAUS
- ▶ High-capacity administration (up to 9999 locomotive and 2048 turnout addresses)

Create and administer system



Zoomable grid for easy sorting

Simple creation of your platform arrangement

Simple connection/docking of the control centre elements

To make adding your models even easier and more convenient, the Z21 app provides you direct access to the ROCO/FLEISCHMANN locomotive database. Here you can simply enter the article number and automatically import all information, incl. model picture, in your personal Z21 app database.

The Z21 app also makes it very easy for you to create a signal box to suit your model system, and takes into account all relevant accessories (such as, e.g., trade occupied sensors, double-diamond crossings, light signals, etc.). Thanks to the integrated Drag & Drop function, as well as simple connection of docking of the control centre elements, even complex platform configurations are realized easily.

\* RailCom is a registered trademark of Lenz Elektronik GmbH

\*\* Motorola is a registered trademark of the Motorola Inc., Schaumburg Illinois., US.



Selection and configuration of accessories

Suitable for the majority of ROCO/FLEISCHMANN decoders



Settings and live data of the Z21

Automatic download of characteristic curves and subsequent evaluation. Graphical representation in plain text



The Z21 app also allows CV programming to optimize the running behaviour of your locomotives.

Models which are already equipped with a RailCom\* compatible ZIMO decoder also allow innovative CV programming using POM. This allows you to directly address the relevant decoder and read out live. The example is especially helpful when customizing the locomotive driving characteristics (such as, e.g., starting voltage, acceleration, and braking behaviour, as well as the sound decoder volume). When doing so, the relevant characteristic curves can be automatically downloaded, evaluated, and processed graphically.

A programming track, as well as the constant repositioning of your locomotives is therefore unnecessary. With decoders or RailCom\* you can of course always revert to traditional CV programming, which the innovative programming help also offers. A new feature for the CV programming is the direct display of the relevant bits, which is a particular help during complex programming, such as, e.g., function mapping.

\* RailCom is a registered trademark of Lenz Elektronik GmbH



## Speaker set

10889



With this speaker set you can retrofit any sound. Complete set with sound box and connection cables.

Dimensions: 10 x 15 x 9 mm



### The new generation of feedback decoders

The characteristics of the locomotive decoders 10894, 10895 and 10896:

Advanced reset and protection functions; all outputs are short-circuit proof. Overcurrent protection for motor and function outputs by switching off and automatic restart. DC and AC analogue operation, with optional unregulated or load-sensing motor control. Software update capability via Z21 (An update via the z21 from the starter sets is not possible). Low-noise motor control, suitable for all kinds of DC and bell-type armature motors. Full NMRA function mapping with enhancements; Dimming, flashing, high beam / low beam switchover via function key. Time limit of the coupler control for overload protection (ROCO-Digi-coupling). Support of braking distances; Locomotive addresses are programmable; Comfortable change of the operating parameters, so the loco does not have to be opened.

The characteristics of the sound decoders 10890, 10891, 10892 and 10893 (can be used in addition to the loco decoders):

Powerful sound amplifier. Acceleration and load dependency of sound reproduction. Loading of sound projects is possible.

Detailed technical information about the decoders can be found in the operating instructions as well as on:

[www.zimo.at](http://www.zimo.at)

## 6-pin decoder (NEM 651)

10887



6-pin decoder, angled pins; can be updated; multiprotocol operation possible; motor control; braking tracks supported; locomotive addresses programmable; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

Suitable for Gauge H0e, TT and N.

### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 13 x 9 x 2.6 mm
- ▶ 0,7 A motor, total (peak 1.5 A)
- ▶ 6 function outputs
- ▶ 4 outputs for additional functions

Corresponds to: ZIMO MX617L

## 8-pole sound decoder (NEM 652)

10890



Sound decoder with wires and 8-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 30 x 15 x 4 mm
- ▶ 1,2 A motor, total (peak 2.5 A)
- ▶ 10 function outputs
- ▶ 2 outputs for additional functions
- ▶ Servo control cables or SUSI
- ▶ Function low voltage 5 V (200 mA)
- ▶ External energy storage (16 V) directly connectable
- ▶ 3 Watt audio, 4–8 Ohm, 32 Mbit, 6 channels

Corresponds to: ZIMO MX645R

## PluX22 sound decoder (NEM 658)

10891



Sound decoder with 22-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

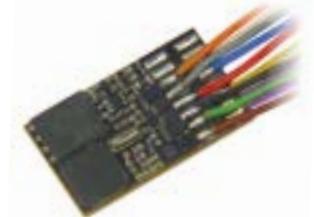
### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 30 x 15 x 4 mm
- ▶ 1,2 A motor, total (peak 2.5 A)
- ▶ 9 function outputs
- ▶ 2 outputs for additional functions
- ▶ Servo control cables or SUSI
- ▶ Function low voltage 5 V (200 mA)
- ▶ External energy storage (16 V) directly connectable
- ▶ 3 Watt audio, 4–8 Ohm, 32 Mbit, 6 channels

Corresponds to: ZIMO MX645P22

## 8 pole sound decoder (NEM 652)

10892



Sound decoder with wires and 8-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

### Technical data:

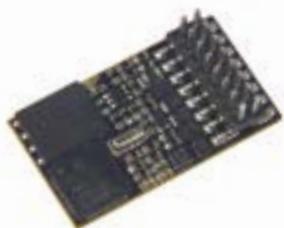
- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 20 x 11 x 4 mm
- ▶ 0,8 A motor, total (peak 1.5 A)
- ▶ 6 function outputs
- ▶ 2 logic level outputs for additional functions
- ▶ Servo control cables or SUSI
- ▶ 1 Watt audio, 8 Ohm, 32 Mbit, 6 channels

Corresponds to: ZIMO MX648R

\* RailCom is a registered trademark of Lenz Elektronik GmbH

## PluX16 sound decoder (NEM 658)

10893



Sound decoder with 16-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

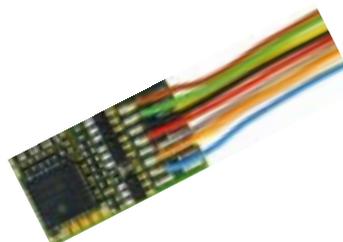
### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 20 x 11 x 4 mm
- ▶ 0,8 A motor, total (peak 1.5 A)
- ▶ 4 function outputs
- ▶ 2 logic level outputs for additional functions
- ▶ Servo control cables or SUSI
- ▶ 1 Watt audio, 8 Ohm, 32 Mbit, 6 channels

Corresponds to: ZIMO MX648P16

## 8 pole decoder (NEM 652)

10894



Decoder with wires and 8-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

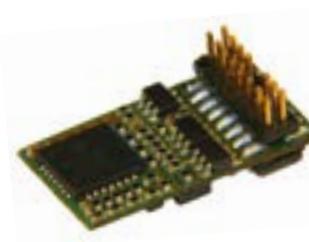
### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 20 x 11 x 3.5 mm
- ▶ 1,0 A motor, total (peak 2.5 A)
- ▶ 6 function outputs
- ▶ 2 logic level outputs for additional functions
- ▶ Servo control cables or SUSI

Corresponds to: ZIMO MX630R

## PluX16 decoder (NEM 658)

10895



Decoder with 16-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 20 x 11 x 3.5 mm
- ▶ 1,0 A motor, total (peak 2.5 A)
- ▶ 6 function outputs
- ▶ 2 logic level outputs for additional functions
- ▶ Servo control cables or SUSI

Corresponds to: ZIMO MX630P16

## PluX22 decoder (NEM 658)

10896



Decoder with 22-pole plug; can be updated; multiprotocol operation possible; motor control; braking tracks supported; comfortable change of operating parameters possible: i.e. the locomotive does not have to be opened; overcurrent protection; RailCom\*

### Technical data:

- ▶ DCC + RailCom\*, DC analogue, MM, AC analogue
- ▶ Dimensions: 22 x 15 x 3.5 mm
- ▶ 1,2 A motor, total (peak 2.5 A)
- ▶ 9 function outputs
- ▶ 2 logic level outputs for additional functions
- ▶ Servo control cables or SUSI

Corresponds to: ZIMO MX633P22



**ACCESSORIES**

## Control element and switching power supply

10788



This controller set is best suited for beginners and running just one train. It consists of one controller and plug-in transformer, designed to compliment each other. The controller gives a definite forwards and backwards control and speed settings. The control knob clicks gently into a zero position. Automatic overload protection. Easy connection to the layout using the pressure connection clips.

### Technical data:

Running voltage: 0–14 V=/0,6 A

Separate accessory output: 14 V=/0,85 A

## Switching power supply

10723



For accessory feed.

Attention: Not suitable for z21 and Z21!

## Light transformer for high capacity

670601



This transformer is the high capacity power pack for the operation of electromagnetic items such as signals, point machines, relays, illumination and other accessories

- ▶ It has an integrated thermal protection switch against short circuit and overload
- ▶ Easy connection to the layout using the pressure connection clips
- ▶ Distribution with 10726

2 outputs:

Cable: 16 V~/2.5 A (for 10764 and 10765); Clips: 14 V~/2.85 A

The transformer replaces the former article 6706 (FLEISCHMANN) and 10725 (ROCO).

## Power distributor

10726



Necessary for connecting var. accessories (turnouts, light, signals, etc.) to the new transformers/switching power supplies. Input is a coaxial socket, outputs – via a luster terminal and four 3-pole connector zones (to our existing connection system 10603) and via a fixed cable with a coaxial connector to the control device or the digital device.

## Connectors and cables

10602

### Cable plugs



Adapters for connecting three single cables with flat connector system (10603).

10603

### 3-pole connector



10605

### 5-pole connector



10608

### 8-pole connector



10616

### 16-pole connector



**Single-pole cable.** Different colours. Conductor cross section 0,2 mm<sup>2</sup>. Length 10 m

10630



10631



10632



10633



10634



10635



10636



10637



10638



### 3-pole flat ribbon cable

Conductor cross section 0.2 mm<sup>2</sup>. Length 10 m

10623



### 5-pole flat ribbon cable

Conductor cross section 0.2 mm<sup>2</sup>. Length 10 m

10625



### 8-pole flat ribbon cable

Conductor cross section 0.2 mm<sup>2</sup>. Length 10 m

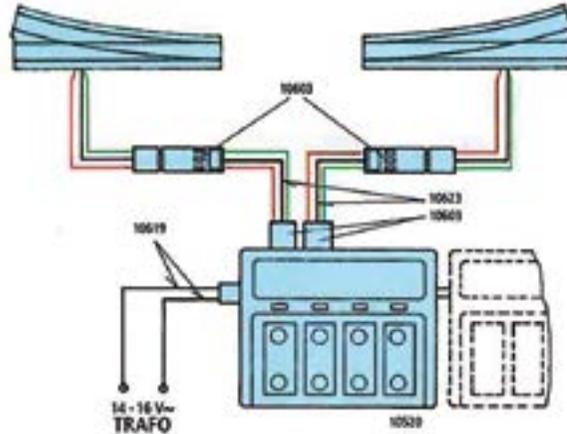
10628



## Change over button

10520

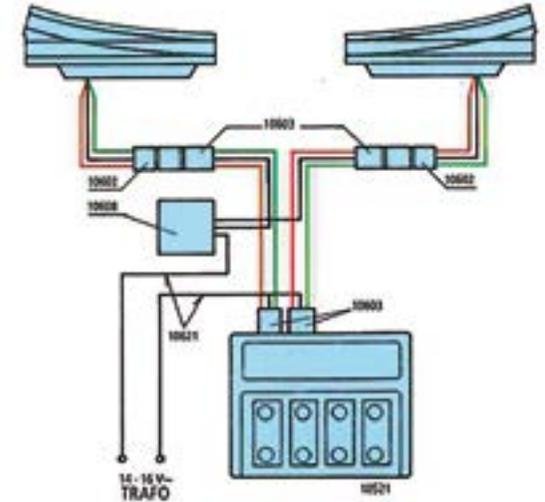
Change over button with feedback function. For four magnetic items switched off at the end (turnouts, semaphore signal, relays, etc.).



## Change over button

10521

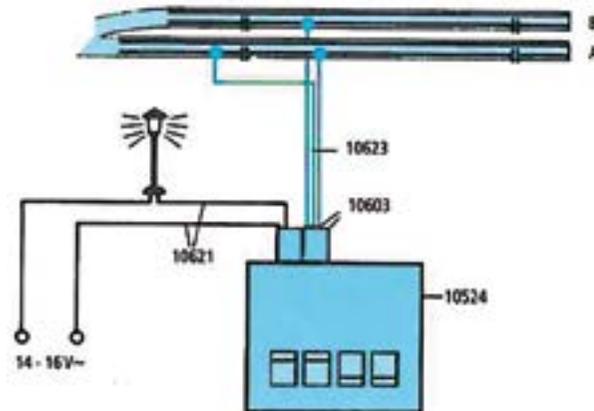
Change over button without feedback function. For four solenoid-operated articles (turnouts, signals, relays) without automatic end-position switch-off.



## Change over switch

10524

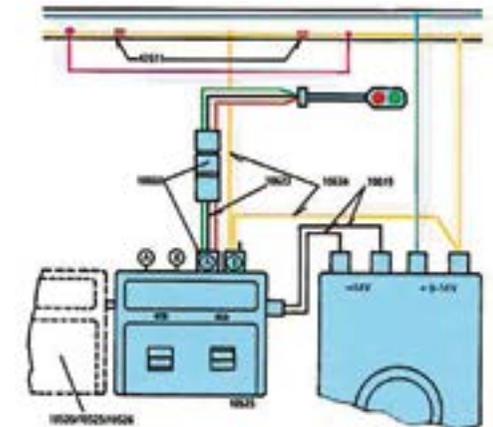
The switch is used wherever alternating switch-on connections are necessary (Lighting, Separate track sections). It is connected via the connector zone. Each individual switch is designed for maximum permissible current of 0.5 A.



## Light signal switch

10525

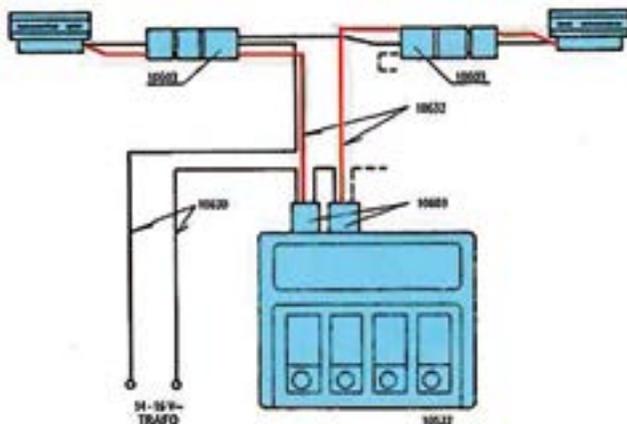
Signal switch with feedback and train control. With one switch, two two-aspect light signals (e. g. 40020), can be operated without magnetic drive.



### Single action button for uncoupling tracks

10522

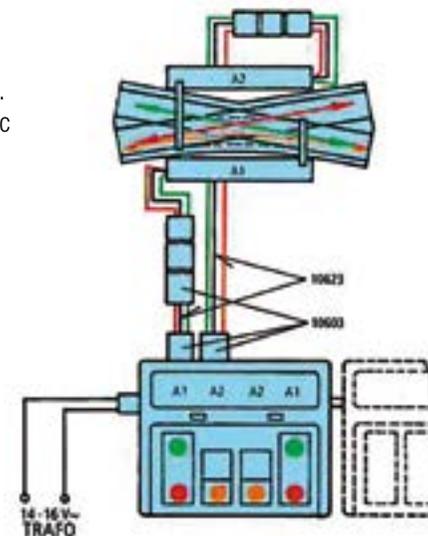
Use this unit wherever power must be supplied for a short time. The individual buttons are electrically insulated and thus they can operate different power circuits.



### Change over button

10526

Change over button with feedback. For single-slip turnouts and symmetric three-way turnouts.



### Connecting cable

10619

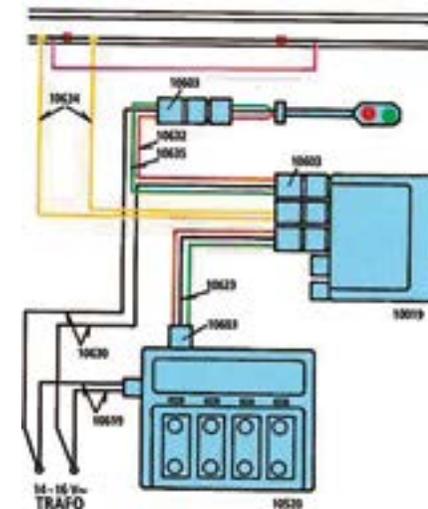
For switches 10520, 10525, 10526, Length 1.20 m



### Universal relay

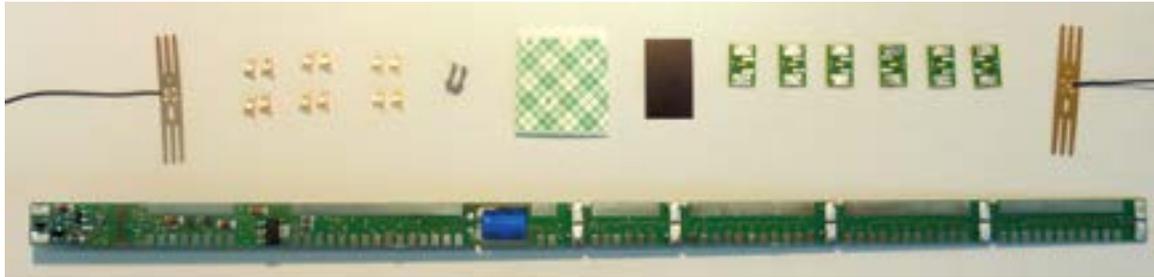
10019

With four change-over contacts. Current load per contact: max. 1.5 A



## Lightings

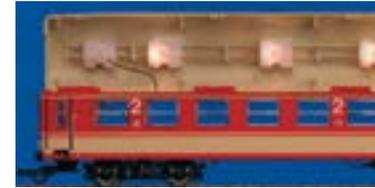
40420



### LED universal lighting set for 4 axle H0 wagons with a length from 170 up to 316 mm

The six LED modules with a warm white LED each can be optionally positioned on the carrier board so that an adaption to the interior is possible. The carrier board can be shortened however the power supply is still possible on both sides. It can be used in analogue as well as digital operation with AC or DC. With 16 pin PLuX interface. The LED modules can be switched in groups in digital operation.

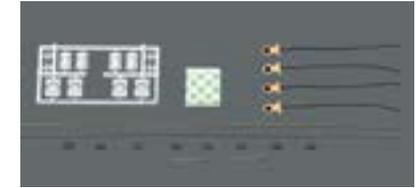
40360



### Universal lighting kit for 4-axled H0 wagons.

Contains a 300 mm flexible strip conductor, 5 bulb carriers, 5 bulbs 16 V/22 mA, 2 wheel current pick-up contacts, fastening material.

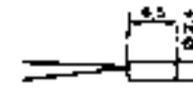
40361



### Universal lighting kit for 2-3-axled H0 wagons.

Contains a 150 mm flexible strip conductor, 2 bulb carriers, 2 bulbs 16 V/22 mA, 4 wheel current pick-up contacts, fastening material.

40321



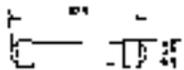
### Light bulb with leads 16 V/22 mA 5 pc/pack.

40322



### Light bulb with leads 12 V/60 mA 5 pc/pack.

93517



Tubular bulb  
16 V, 30 mA

93518



Bulb, plug-in-socket  
2.8, 12 V, 50 mA

109088



Bulb, plug-in-socket  
2.8, 16 V, 30 mA

93728



Bulb, plug-in-socket  
4.8, short version, 16 V,  
50 mA

93733



Bulb, plug-in-socket  
4.8, long version, 16 V,  
50 mA

101366

Lighting unit for  
43011

101365

Lighting unit for intermediate  
wagon 43014

40314



### Interior lighting retrofit set and headlights

Interior lighting retrofit set and headlights (bulb) with direction of travel dependent light change for IR/IC driving coaches 44935/44936/44937, (1:100).

In addition: Replacement bulbs 12 volt: 93518 and 93734.  
Replacement bulbs 16 volt: 109088 and 93517.

40317



### Interior lighting retrofit set and headlights

Interior lighting retrofit set and headlights (bulb) with direction of travel dependent light change for coaches 44942/44959, (1:100).

In addition: Replacement bulbs 12 volt: 93521 and 93734.  
Replacement bulbs 16 volt: 93728 and 93517.

## Couplings

40395



**Universal coupling for NEM 362 standard coupler pocket,**  
12 pc/pack

40397



**Universal coupling for NEM 362 standard coupler pocket,**  
50 pc/pack

40396



**Height adjustable universal coupling.** Spacing extended by approx. 2 mm per coupler. 12 pc/pack

40343



**Close coupling mechanism retrofit set for 2-axle wagons up to 140 mm in length.** Drawbar with standard coupler pocket (NEM 362). Without close coupling heads. 12 pc/pack

40344



**Close coupling mechanism retrofit set for 2-axle cars over 140 mm and for bogie cars up to 170 mm in length.** Without close coupling heads. 12 pc/pack

40270

4 pc/pack.

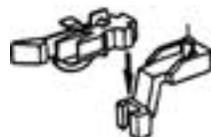
40271

50 pc/pack.



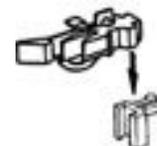
**Close coupler head with advanced uncoupler for NEM 362**

40281



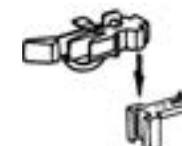
**Close coupler head with advanced uncoupler**  
Suitable for FLEISCHMANN vehicles with trunnion pocket. 2 pc/pack

40286



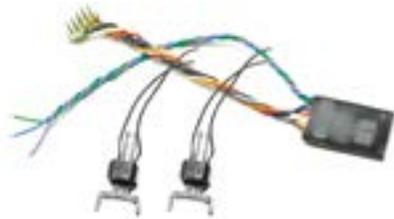
**Close coupling heads with advanced uncoupler**  
Suitable for Ade-cars, height adjustable. 2 pc/pack

40287



**Close coupling heads with advanced uncoupler,** height adjustable  
2 pc/pack

40411



### Digital coupler kit with feedback feature

Consists of 1 multi protocol special decoder for AC and DC operation and 2 couplings. The couplings can be controlled only by this decoder. If decoders of other manufacturers are used, the couplings can be damaged.

Suitable for 8-interfaces NEM 652. Automatic driving current recognition Motorola\*/DCC or analogue DC/AC. Automatic driving recognition 14/28/128 settings.

40345



### Electric coupling, 4-pole

This coupling is used for extending the supply and control voltages from locomotive to wagon, or from wagon to wagon. 2 pc./pack

40326



### Close coupling retrofit kit

With coupling draw-bar 2 pc./pack



40243



**Standard D-link coupling**  
for NEM 362 standard coupler socket. 2 pc./pack

40244



**Hook coupler for FLEISCHMANN standard coupler, sockets.**  
2 pc./pack

40375



**Claw coupling for Swedish LKAB ore car, 2 pc./pack.**

40376



**Central buffer coupling „AK69e“ for NEM shaft** with dovetail fitting. Standard coupler pocket. 2 pc./pack

40390



**H0e stirrup coupling**  
2 pc./pack

6516



**PROFI slot coupling**  
1 pc./pack

386516



**PROFI slot and rivet coupling (bulk pack)**  
50 pc./pack

\* Motorola is a registered trademark of the Motorola Inc., Schaumburg Illinois., US.

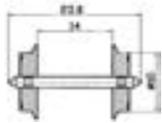


## Wheel sets

40179

### Replacement wheelset, AC

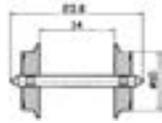
2 pc./pack, Ø 10 mm,  
Axle length: 23.8 mm



40180

### Replacement wheel set, AC

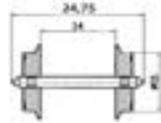
2 pc./pack, Ø 10 mm,  
Axle length: 23.8 mm.  
One side insulated.



40181

### AC fine-cast metal spoke wheel set

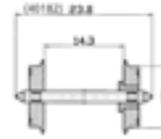
2 pc./pack, Ø 11 mm,  
Axle length: 24.75 mm



40182

### DC NEM standard wheel set

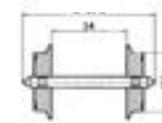
2 pc./pack, Ø 11 mm,  
Axle length: 23.8 mm



40183

### AC wheel set

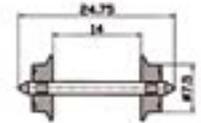
2 pc./pack, Ø 11 mm,  
Axle length: 23.8 mm



40184

### AC wheel set

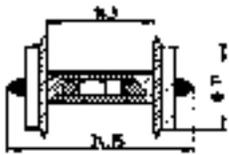
2 pc./pack, Ø 7.5 mm,  
Axle length: 24.75 mm



40186

### Wheel set with 18 kΩ resistor

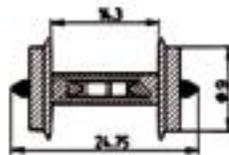
2 pc./pack, Ø 11 mm,  
Axle length: 24.75 mm



40187

### Wheel set with 18 kΩ resistor

2 pc./pack, Ø 9 mm,  
Axle length: 24.75 mm



40188

### DC NEM standard spoked wheel set

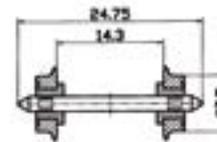
2 pc./pack, Ø 11 mm, Axle length:  
24.75 mm. One side insulated.



40189

### DC NEM standard wheel set

2 pc./pack, Ø 7.5 mm, Axle length:  
24.75 mm. Insulated on both sides.



40190

### DC NEM standard fine-cast spoked wheel set. With split axle.

2 pc./pack, Ø 11 mm,  
Axle length: 24.75 mm



6560

### AC wheel set

Axle length: 24 mm. Ø 11 mm. Not insulated.  
To convert all 2- and 3-axled FLEISCHMANN wagons fitted with disc wheels, as well as all 4-axled wagons with a length of 282 mm for use on 3-rail, centre pick up AC voltage tracks.



6561

### AC wheel set

Axle length: 25 mm. Ø 11 mm. Not insulated.  
To convert all 4-axled wagons with disc wheels (except wagons which should be fitted with 6560) for use on 3-rail, centre pick up AC voltage tracks.



6562

### Exchange spoked wheel set for AC operation

Axle length: 23.5 mm. Ø 11 mm. Not insulated.  
To convert FLEISCHMANN coaches with spoked wheels for use on 3-rail, centre pick up AC voltage tracks.



6563

### Exchange double spoked wheel set for AC operation

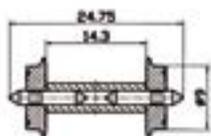
Axle length: 24 mm. Ø 11 mm. Not insulated.  
To convert all FLEISCHMANN goods wagons fitted with spoked wheels for use on 3-rail, centre pick up AC voltage tracks.



40191

**Standard wheel set**

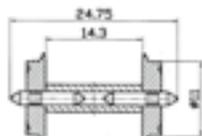
DC, with split axle, Ø 9 mm, 2 pc./pack



40192

**Standard wheel set**

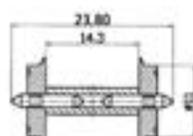
DC, with split axle, Ø 11 mm, 2 pc./pack



40193

**Wheel set with forked axle**

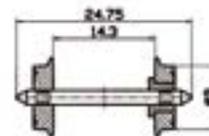
DC, for passenger cars type N28, Ø 11 mm, 2 pc./pack



40194

**NEM standard wheel set**

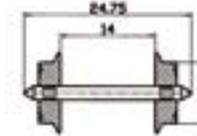
DC insulated on one side, Ø 9 mm, 2 pc./pack



40195

**AC-wheel set**

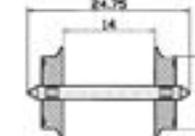
Ø 9 mm, 2 pc./pack



40196

**AC-wheel set**

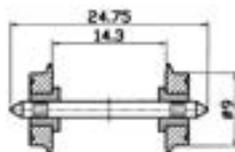
Ø 11 mm, 2 pc./pack



40197

**NEM standard wheel set**

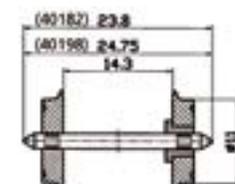
DC, insulated on both sides, Ø 9 mm, 2 pc./pack



40198

**NEM standard wheel set**

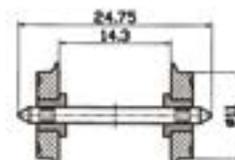
DC, insulated on one side, Ø 11 mm, 2 pc./pack



40199

**NEM standard wheel set**

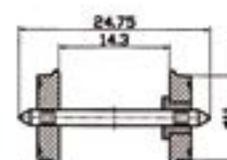
DC, insulated on both sides, Ø 11 mm, 2 pc./pack



40264

**RP-25 wheel set**

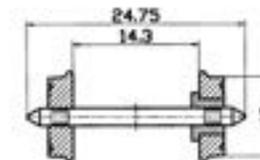
DC insulated on one side, Ø 11 mm, 2 pc./pack



40266

**RP-25 wheel set**

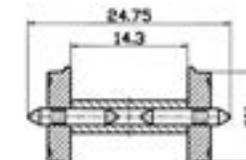
DC insulated on one side, Ø 9 mm, 2 pc./pack



40267

**RP-25 wheel set**

DC with split axle, Ø 11 mm, 2 pc./pack



**DC traction tyre sets**

40066 For wheels, 12.5–13.8 mm diameter. 10 pc./pack

40067 Ø 6.8–8.2 mm. 10 pc./pack

40068 Ø 8.3–10.2 mm. 10 pc./pack

40069 Ø 10.3–12.8 mm. 10 pc./pack

40070 Ø 12.9–14.6 mm. 10 pc./pack

40071 Ø 14.7–16.5 mm. 10 pc./pack

40072 Ø 16.5–19.0 mm. 10 pc./pack



**AC traction tyre sets**

40073 For wheels, 8.8–10.2 mm diameter. 10 pc./pack

40074 Ø 10.3–12.4 mm. 10 pc./pack

40075 Ø 12.5–15.3 mm. 10 pc./pack

40076 Ø 15.4–17.5 mm. 10 pc./pack

40077 Ø 17.5–20.0 mm. 10 pc./pack



## Smoke generator

40160



Smoke generator for BR 80, BR 36, BR 03.10 and „Württemberg C“/BR 18.1 for analogue and digital locomotives.

## SEUTHE steam-smoke-distillate

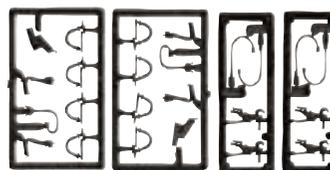
10908



Contents: 50 ml

## Preparation set for locos

40014



Accessories for upgrading model locomotives.

## Figure set: Engine driver and fireman

40001



Painted., 3 pc. each/pack

## H0 Railway figures (unpainted)

40000



For do-it-yourself painting  
24 pc./pack

## AC pick-up shoes

40500



Short version.  
Length 42 mm.

40501



Long version.  
Length 56 mm.

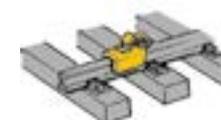
82111



Long version, slim.  
Length 56 mm.

## Brake shoes

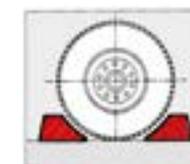
40004



For clipping onto the rail.  
12 pc./pack

## Chocks for H0 trucks

40005



12 pc./pack

## Hobbyist's saw

10900



All purpose hobbyist's saw. For cutting track sections to size.

## Lubricating grease

10905



particularly suited for plastic gears and provides an excellent glide effect. Contents: 8 g

## Oiler

10906



Practical tool for properly "lubricating" sintered bearings of model locomotives. One drop per lubricating point is sufficient!

## Excavator shovel for gantry crane

46807



Fully functional model that can be used with the mobile cranes 40110 and 40111.

## Microfibre cloth

10003



## Ravenna Viaduct kit

15011



Length: 55.5 cm  
Height: 33.0 cm

## Bridge pier Ravenna

15012



Height: 22.0 cm

## Bridge arch Ravenna

15013



Length: 18.4 cm

► In co-operation with



*... wie im Original*

## Box girder bridge

40080



Length: 22.86 cm  
Width: 7.5 cm

## Arched bridge

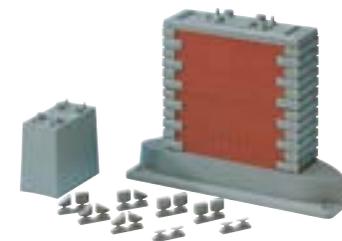
40081



Length: 45.7 cm  
Width: 7.5 cm

## Bridge pillars

40082



Height: 9.4 cm.  
Suitable for bridges 40080 and 40081.

The bridges can be clipped together within in minutes without using adhesives.

## Display cases

40025



For models with maximum length of 22 cm.  
Size (L x W x H): 23.8 x 7.5 x 7.5 cm  
(without model)

40026



Display case for items with a maximum length of 29 cm.  
Size (L x W x H): 35 x 6 x 8 cm



TRACKS

The ROCO LINE track is a high quality sleeper track. It is equally suitable for model railway beginners as well as for professionals. With a few simple steps and without any special technical knowledge, you can build a coherent model railway layout that's true to the original. The sleeper track made of nickel silver is highly resistant to corrosion and shows barely any scuffs after years of use. Due to its specific rail profile and surface sealing, dirt can hardly settle on the rails. There is a constant contact between the rail and the wheels and thus an uninterrupted power supply of the vehicles is guaranteed. In addition, the conventional slightly curved railhead ensures an acoustically and mechanically smooth running of the vehicles on the layout.

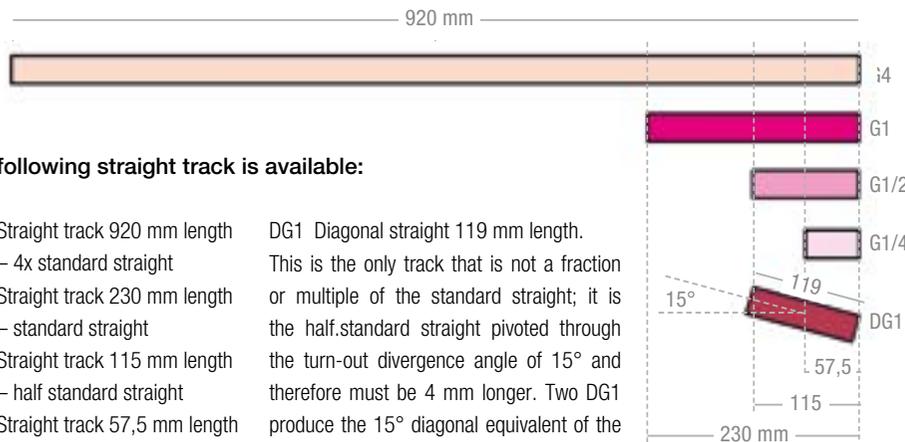
The profile height of 2.1 mm gives the ROCO LINE track its original look. With seven parallel circuits, eight different turnout designs as well as flexible tracks the ROCO LINE offers you almost all options to build a model railway layout true to the original. Through the transitional rail joiners (42612), the ROCO LINE track layout can be easily connected to all kinds of systems with 2.5mm rail profile.

## Orientation

The ROCO LINE track system uses both article numbers and "descriptive" short designations for different elements of its geometry. These short designations, e. g. G1 for standard straight track will be shown on all track plan illustrations, instructions, packaging and on the track units themselves.

## Straight tracks

In principle you can build the ROCO LINE track layout with only two straight tracks of different lengths. All other straight tracks (except the diagonal track) are parts or multiples of the standard track. It's that simple!



### The following straight track is available:

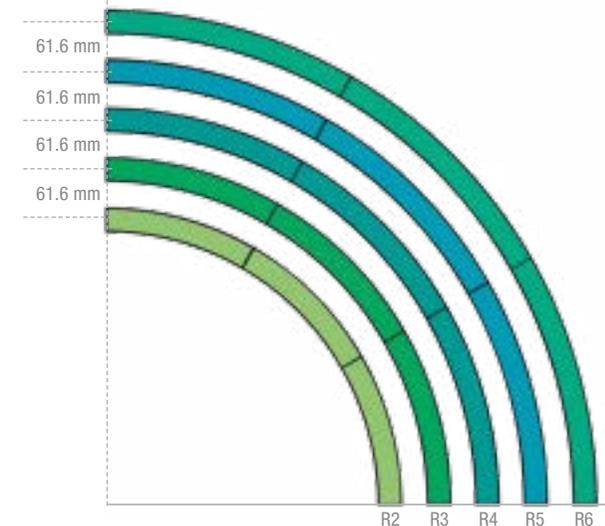
- |      |  |     |   |
|------|--|-----|---|
| G4   | Straight track 920 mm length<br>– 4x standard straight       | DG1 | Diagonal straight 119 mm length.<br>This is the only track that is not a fraction or multiple of the standard straight; it is the half standard straight pivoted through the turn-out divergence angle of 15° and therefore must be 4 mm longer. Two DG1 produce the 15° diagonal equivalent of the standard straight track G1. |
| G1   | Straight track 230 mm length<br>– standard straight          |     |   |
| G1/2 | Straight track 115 mm length<br>– half standard straight     |     |   |
| G1/4 | Straight track 57,5 mm length<br>– quarter standard straight |     |   |

## Curved Tracks

A full circle (360°) requires 12 units of curved tracks. The track separation of 61.6 mm assures that trains with correct scale length express coaches may pass without touching even on adjacent R2/R3 radius track.

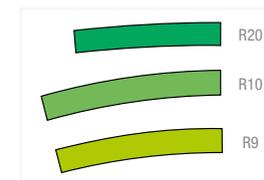
**ROCO LINE offers 5 basic radii with a parallel track separation of 61.6 mm:**

- R2** curve 30°, r= 358 mm
- R3** curve 30°, r= 419.6 mm
- R4** curve 30°, r= 481.2 mm
- R5** curve 30°, r= 542.8 mm
- R6** curve 30°, r= 604.4 mm



**Large radii for turnouts and transition curves:**

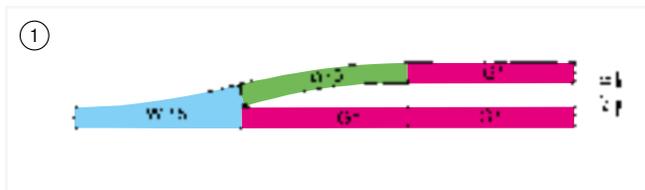
- R9** curve 15°, r= 826,4 mm
- R10** curve 15°, r= 888 mm – revers curve for the 15° turnout
- R20** curve 5°, r= 1962 mm – revers curve for the 10° turnout



These curved units may be assembled into a complete 360° circle as well. For R9 and R10 a total of 24, for R20 a total of 72 sections is required. These generous radii are often used as transitional radii in combination with the standard radii R2-R6. So you could start e.g. with three curves R20 and connect them to one curve R10 and continue your layout with 30° curves R2-R6.

## Examples for combining individual elements

With the help of some examples we will show, how to combine individual elements of the ROCO LINE track system. Only a few important illustrations can be shown here.



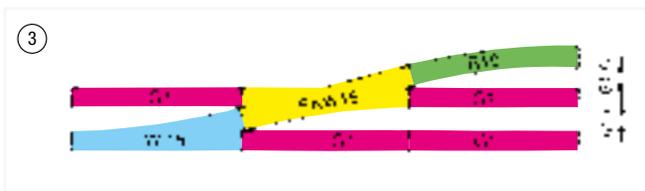
**Illustration 1**

A simple branch with reverse curve, assembled with a standard straight track G1, one W15 and one R10. Both tracks will end exactly at the grid line and have the correct separation of 61.6 mm.



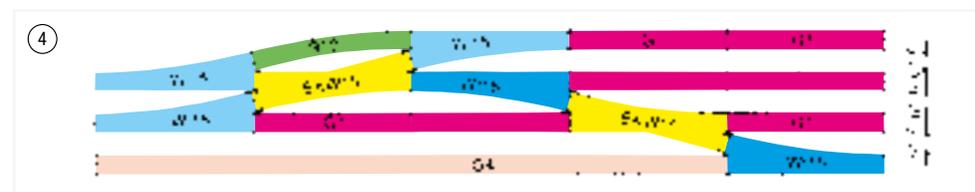
**Illustration 2**

A third track is added to the track sidings. The straight trough track of the turnout is usually, in prototype as well as in the model, placed in the diagonal direction. This track formation appears to be quite simple but leads to compromises in many conventional track systems. The ROCO LINE track system maintains the correct parallel of 61.6 mm and all three tracks end exactly at the grid line. This is made possible by an 8 mm length extension unit (D8), which is supplied with each 15° turnout.



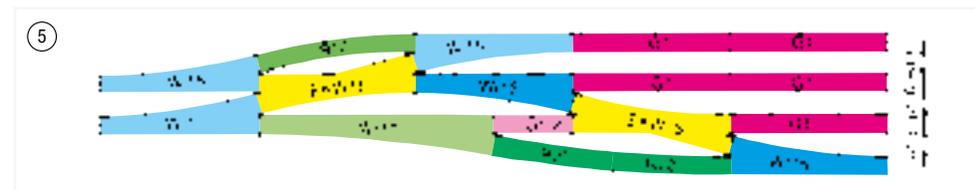
**Illustration 3**

A single or double slip turnout can be used instead of a standard turnout. Here too the shortened diagonal requires a geometrically correct length compensation. Two 4 mm units (D4) solve this problem without additional trouble for the modeler.



**Illustration 4**

Crossings may be arranged either left or right hand. To save the modeler the problem of correct choice at time of purchase and to avoid limiting their utilisation by having different crossing designs, all ROCO LINE crossings are supplied with the previously mentioned 4 mm units. As shown in this example, the identical crossing may be used alternatively as right- or left hand crossing. The example also shows how a single slip may be bypassed, as is done by the prototype, by using two turnouts and one R10. The advantage of this track formation compared to a double slip turnout is the possibility of parallel entry or simultaneous entry and exit of trains into and from a station.



**Illustration 5**

This shows how the slim 10° turnouts may be easily incorporated into a track formation which contains only 15° turnouts and crossings. Please note that the reverse curve to the 10° turnouts is formed by two track sections R20.



**Illustration 6**

Instead of the reverse curve to the 10° turnout it is of course possible to insert another 10° turnout, with the straight trough track of the turnout placed at the diagonal. For this arrangement the 10° turnouts are supplied with a 5 mm unit (D5) which assures the correct length to the next grid line. Here again the track separation and the track ending at the grid spacing are maintained.

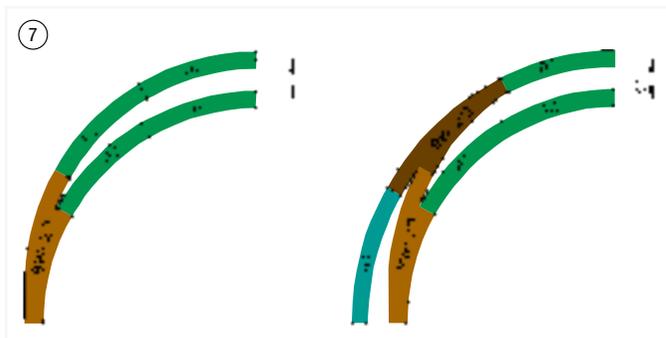


Illustration 7

With the left- or right hand curved turnouts it is possible to form the track branches and connections shown above, whereby the completion of the 90° circle sector is easily achieved with standard R2 or R3 track units.

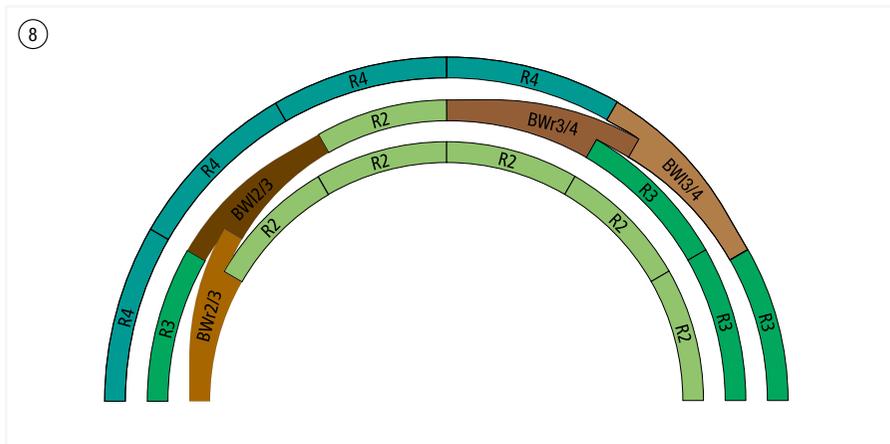


Illustration 8

With the left and right turnouts R2/3 and R3/4, the track connections as shown in the illustration, can be built via three parallel turnouts from radius 2 to radius 4 within a semicircle. To complete the 180° circle sector you can use the standard track pieces R2, R3 and R4.

## Super silent ROCO LINE tracks

„Gleise“ stands at ROCO LINE as an abbreviation for „geh leise!“ meaning “run quietly”. The train glides through the super silent ROCO LINE track layout. Only the uniform „tack-tack“ of the wheelsets on the rail joints is audible and ensures acoustically the realistic railway atmosphere. The very good conductivity of the nickel silver profiles, as well as the polarizable switch frog pieces also ensure a smooth and jolt-free running of the trains on your own small model railway world.

Due to its intelligent as well as clear geometry, the ROCO LINE track layout requires only a few track elements. At the same time, the ROCO LINE track layout with its generous branch radii, different 15° turnouts, slender 10° turnouts, elegant curved turnouts and flexibility can be used even for the most unusual track figures.

## Turnouts

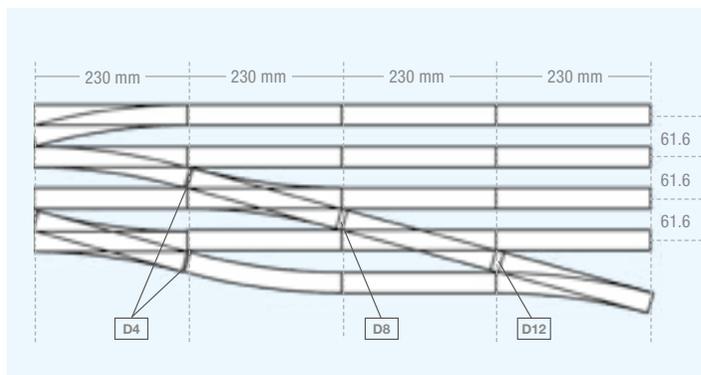
The ROCO LINE turnouts with their slender crossing frogs guarantee a flawless and visually appealing model railway operation that is true to the original. All turnouts are supplied without turnout mechanisms. Optionally, manual (40297/40298) or electric above ground turnout mechanisms (40295/40296) can be mounted. For underground operation the switch turnout mechanism 10030 can be used.

## Polarization

Polarization is necessary for good running properties, in particular for small locomotives. The polarization of the turnout frogs is mostly prepared. If you use the electric turnout machines 40295/40296, a connection can be made with a few easy steps. For this purpose only three short electrical connections between the connecting sockets that are located at the front of the drive and under the side-mounted sleeper rust of the point must be made. For this no soldering is required. If an underground drive 10030 is used, one of the four switches can be used for the polarization.

## Spacers

Turnouts or crossings occasionally come with attached diagonal spacers (D4, D8, D12). These are necessary in order to extend the straight line according to grid dimensions during the installation of diagonal turnouts. At crossings, they enable you to continue your layout either left or right. No additional compensation pieces thus are required for the construction of a railway station complex.



The spacers are also available individually as spare parts:

#### Without bedding:

- Art. Nr.: 98000 (D2)
- Art. Nr.: 98001 (D4)
- Art. Nr.: 98002 (D5)
- Art. Nr.: 98003 (D8)
- Art. Nr.: 98008 (D12)

#### With bedding:

- Art. Nr.: 98004 (D2)
- Art. Nr.: 98005 (D4)
- Art. Nr.: 98006 (D5)
- Art. Nr.: 98007 (D8)
- Art. Nr.: 98009 (D12)

## ROCO LINE with bedding

For standard ROCO LINE track systems with a 2.1 mm rail section, the track bed is already included. This means that anything is possible with regards to your own individual set up, regardless of what base the track runs on. You also save yourself the time-consuming and painstaking job of ballasting the tracks.

The intelligent as well as clear geometry of the ROCO LINE track system includes only a few of the track elements. On the one hand, this creates planning security and saves money, time and stress, but at the same time leaves enough leeway for variable and unusual layouts. This means there are no limits to your creativity and imagination.

The sturdy nickel silver section of the track system combined with the strong, plastic base guarantees a robust and trample-proof track. This means that many slip ups are forgiven. The clip elements integrated into the plastic grill provide extra security for track joints and enable robust and swift construction of your track system and thus also guarantee diverse operation.

## ROCO LINE without bedding

Wherever the superior appearance of the ROCO LINE track with bedding is not required, e. g. inside tunnels, the ROCO LINE track without bedding offers an economical alternative. Individualists who want to model a particular type of permanent way and will not shy away from labours of hand-ballasted roadbed will also appreciate this track.

The ROCO LINE tracks with or without bedding are geometrically identical. The qualitative characteristics, such as 2.1 mm solid nickel silver rails profile and NIROSTA spring steel fishplates are, of course, the same for tracks with or without bedding.

The exact scale, diminutive design of rail profiles, rail fastening hardware and sleepers has the obvious disadvantage that the stiffness of the separate track units is lower than that of tracks that are supported by bedding and core unit. Consequently ROCO LINE tracks without bedding should only be used on a well constructed support base.

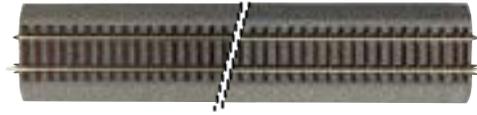


## Straight tracks

42506

### Straight track G4

Length 920 mm (4x standard length).



42510

### Straight track G1

Length 230 mm (standard length).



42512

### Straight track G½

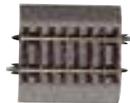
Length 115 mm (half standard length).



42513

### Straight track G¼

Length 57.5 mm (quarter standard length).



42511

### Straight track DG1

diagonal straight element. Length 119 mm.



## Circuit track

42518

### Circuit track

with potential-free switching contact.

Length 115 mm (G½).



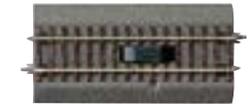
## Decoupler track

42519

### Electric uncoupler track

Length 115 mm (G½),

The electromagnetic drive is completely hidden inside the bedding.



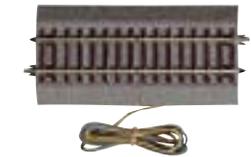
## Feeder tracks

42521

### Feeder track (G½)

with EMC interference suppressor. Not suitable for digital operation!

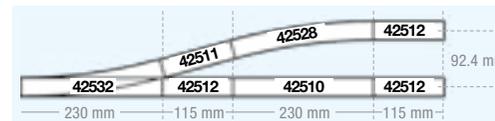
Length 115 mm.



42517

### Digital feeder track (G½)

This feeder track is not equipped with interference suppressors for radio interference suppression and therefore only approved for use in digital systems.



## Curved tracks

42522

**Curved track R2**  
Radius 358 mm, 30°.



42523

**Curved track R3**  
Radius 419.6 mm, 30°.



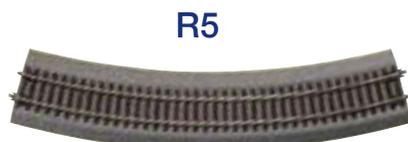
42524

**Curved track R4**  
Radius 481.2 mm, 30°.



42525

**Curved track R5**  
Radius 542.8 mm, 30°.



42526

**Curved track R6**  
Radius 604.4 mm, 30°.



42527

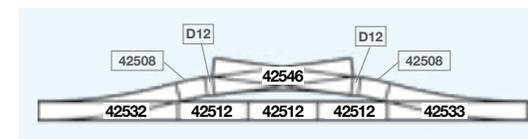
**Curved track R9**  
Radius 826.4 mm, 15°.



12 pieces of radii R2–R6 are needed for each full circle.

42508

**Curved track R2 ¼**  
Radius 358 mm, 7,5°.



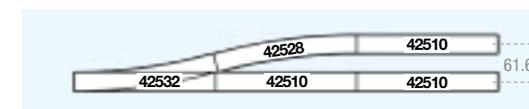
42509

**Curved track R3 ¼**  
Radius 419.6 mm, 7,5°.



42528

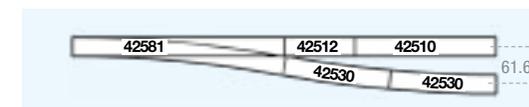
**Curved track R10**  
Radius 888 mm, 15°.  
(Opposite curve for 15° turnouts and crossings).



42530

**Curved track R20**  
Radius 1962 mm, 5°.  
2 piece constitute complementary curve for 10° turnouts and crossings.

R20



## Turnouts 15° / Crossings

42538

### Turnout left Wl15

Length 230 mm, branch angle 15°, branch radius 873.5 mm. Especially inexpensive version without distancers and without preinstalled polarization.

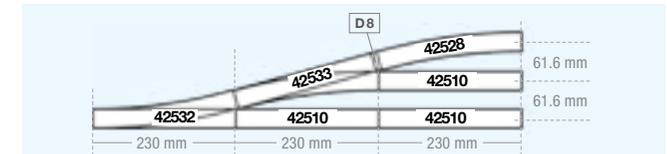
Suitable motor: 42620 or 42624.



42539

### Turnout right Wr15

Built as 42538.



42532

### Turnout left Wl15

Built as 42538, with pre-installed polarization.

An 8-mm spacer element (D8) is included for diagonal installation.

Suitable motor: 42620 or 42624.



42533

### Turnout right Wr15

Built as 42532.

42546

### Single slip turnout EKW15

Length 230 mm, standard design with internal switch rails. Branch radius 531 mm, crossing angle 15°.

For diagonal installation two D4 and one D12 are included.



Suitable motor: (2x) 42620 or (2x) 42624.

42594

### Double slip turnout DKW15

Length 230 mm, Design "Baeseler" with external switch rails. Effective branch radius 1050 mm, crossing angle 15°. Owing to the electrical characteristics of this type of double slip turnout it is necessary to always use it polarized. For diagonal installation two D4 and one D 12 are included.



Suitable motor: (2x) 42620 or (2x) 42624.

42543

### Three-way turnout DWW15, frog angle 10.8°,

First divergence to the left, second divergence to the right. Length 287.5 mm (G1+G¼), branch radius 873.5 mm each, branch angle 15° each. To adapt the length a 57.5 mm G¼ straight track element and spacers D12 and D4 are included.



Suitable motor: (2x) 42620 or (2x) 42624.

## Crossings

42597

### Crossing K15

Length 230 mm, crossing angle 15°. By using a 10019 relay it is possible to polarize the frogs and incorporate the crossing like a normal solenoid accessory in a route locking. The railroad lines that cross each other are not electrically isolated.

Two D4 and one D12 are included for diagonal installation.

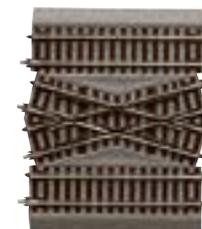


42598

### Centrepiece for double crossover DGV15

Length 115 mm. Suitable in combination with 15° turnouts/diamond crossings with slips (42538, 42539).

The railroad lines that cross each other are not electrically isolated.



## Turnouts 10° / Crossings

42580

### Turnout left W110 manually operated, frog angle 8.1°,

Length 345 mm, branch radius 1946 mm. A 5-mm spacer element (D5) is included for diagonal installation.

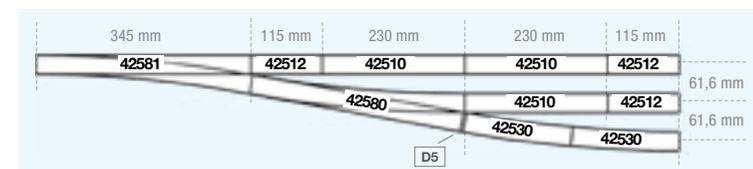
Suitable motor: 42620 or 42624.



42581

### Turnout right Wr10 manually operated

Built as 42580.



42591

### Single slip turnout EKW10

Length 345 mm, branch radius 959 mm, crossing angle 10°. Standard design with internal switch rails.

For installation crossing from left or right two 2.5 mm spacers (D2) and one 8 mm (D8) are included.



Suitable motor: 42620 (2x) or 42624 (2x).

42549

### Double slip turnout DKW10

Length 345 mm, branch radius 959 mm, crossing angle 10°. Standard design with internal switch rails. For installation crossing from left or right two 2.5 mm spacers (D2) and one 8 mm (D8) are included.



Suitable motor: 42620 (2x) or 42624 (2x).

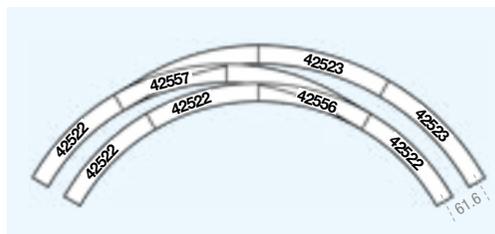
The spacers are also available individually as spare parts:

- Art. Nr.: 98004 (D2)
- Art. Nr.: 98005 (D4)
- Art. Nr.: 98006 (D5)
- Art. Nr.: 98007 (D8)
- Art. Nr.: 98009 (D12)

More illustrations and examples see page 49.

## Curved turnouts

### R2/R3



**R2/R3:** The use of the curved turnout R2/R3 for long 'to-scale' express train coaches (length over buffers more than 300 mm) is inconvenient.

42558

#### Curved turnout left BWI2/3, manually operated

Radius of main track and branch track 358 mm (R2), arc angle 30°.

Suitable motor: 42620 or 42624.

Especially inexpensive version **without pre-installed polarization.**

42556

#### Curved turnout left BWI2/3, manually operated

With polarization.

42559

#### Curved turnout right BWr2/3, manually operated

Radius of main track and branch track 358 mm (R2), arc angle 30°.

Suitable motor: 42620 or 42624.

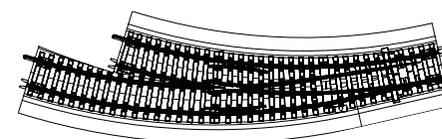
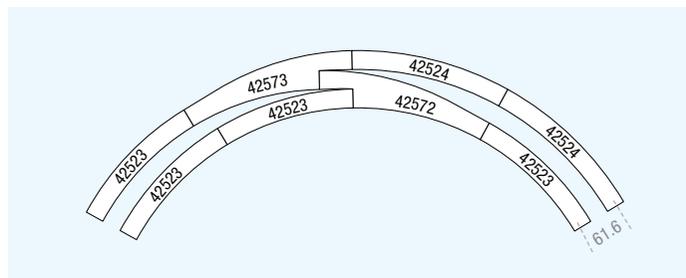
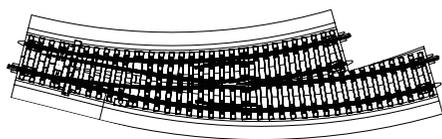
Especially inexpensive version **without pre-installed polarization.**

42557

#### Curved turnout right BWr2/3, manually operated

With polarization.

### R3/R4



**n:**

42572

#### Curved turnout left BWI3/4, manually operated

Radius of main track and branch track 419.6 mm (R3), arc angle 30°.

Suitable motor: 42620 or 42624.

- ▶ Newly designed frog pieces ensure a smooth crossing
- ▶ Switch opening/width in the frog piece area according to NEM standards

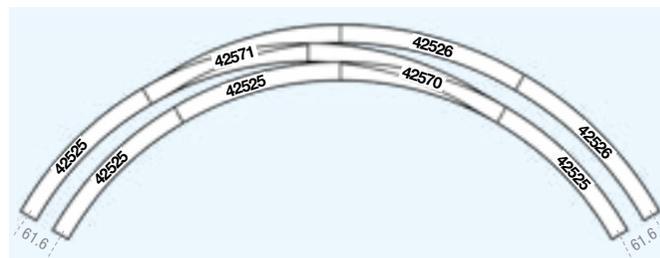
42573

#### Curved turnout right BWr3/4, manually operated

Radius of main track and branch track 419.6 mm (R3), arc angle 30°.

Suitable motor: 42620 or 42624.

R5/R6



42570

**Curved turnout left BWI5/6, manually operated**

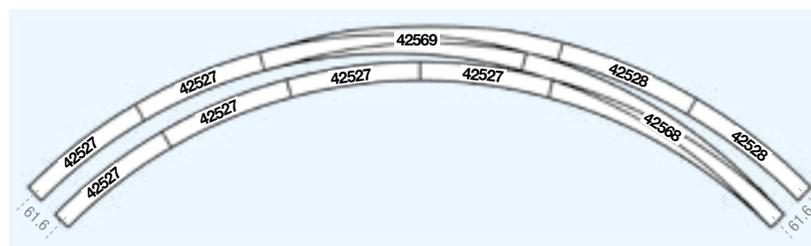
Radius of main track and branch track 542.8 mm (R5), arc angle 30°.  
Suitable motor: 42620 or 42624.

42571

**Curved turnout right BWr5/6, manually operated**

Radius of main track and branch track 542.8 mm (R5), arc angle 30°.  
Suitable motor: 42620 or 42624.

R9/R10



42568

**Curved turnout left BWI9/10, manually operated**

Radius of main track and branch track 826.4 mm (R9), arc angle 30°.  
Suitable motor: 42620 or 42624.

42569

**Curved turnout right BWr9/10, manually operated**

Radius of main track and branch track 826.4 mm (R9), arc angle 30°.  
Suitable motor: 42620 or 42624.

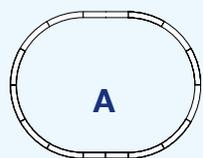
## Track sets - The ABC of ROCO LINE tracks

A proven idea – complete track sets for youngsters as well as grown-up model railway enthusiasts – becomes even more attractive with the ROCO LINE track system with bedding: excellent appearance as well as rugged and reliable for setting up and operating. During the succession of track formations A–E the beginners learn the clear geometric design. The track sets are also an economical means for the experienced modeler to become acquainted with the ROCO LINE track system by obtaining a universally applicable basic stock of the major track elements.

The individual sets contain the coloured tracks shown in the illustrations. The sets contain manually operated turnouts which may be fitted with electromagnetic bedding turnout drive 42620 or with the electric turnout drive 42624 (with DCC decoder).

The individual sections just have to be clipped together as shown in the illustrations and a train can start running. The ROCO LINE tracks are held together without additional fasteners and can be assembled directly on the floor.

### Track set A



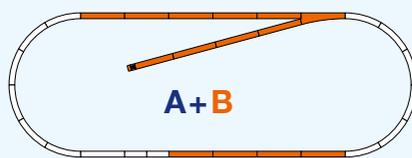
Space requirement ca. 120 x 100 cm

The track set A is the minimum layout contained in all starter sets and cannot be purchased separately. All other tracks sets are extensions of this layout.

Track set A consists of:

- 12 curved tracks R2 (42522)
- 1 straight track G1 (42510)
- 1 straight track G 1/2 (42512)
- 1 feeder track (G 1/2) (42521)

### 42010 Track set B



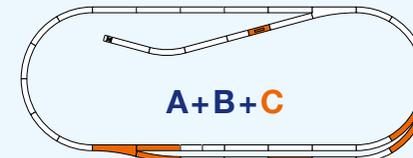
Space requirement starting with set B ca. 240 x 100 cm

Running round and round becomes boring. Adding a single turnout and siding makes the layout more interesting. Set A + B is actually the minimum track layout to start a model railway. Therefore Set B is also part of some starter sets.

Track set B consists of:

- 13 straight tracks G1 (42510)
- 1 manual turnout left W15 (42538)
- 1 buffer stop kit (42608)
- 1 roadbed end piece (42651)

### 42011 Track set C

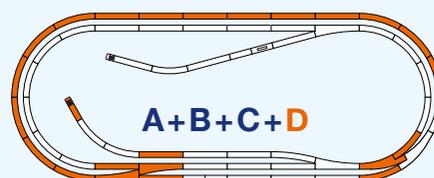


A long passing siding and a hand-operated uncoupler are part of set C and bring additional diversification into the operation.

Track set C consists of:

- 2 straight tracks G1 (42510)
- 1 curved track R10 (42528)
- 2 curved tracks R2 (42522)
- 1 straight track G1/2 (42512)
- 1 manual uncoupler track G1/2
- 1 manual curved turnout right BWr2/3 (42559)
- 1 manual turnout right Wr15 (42539)

### 42012 Track set D

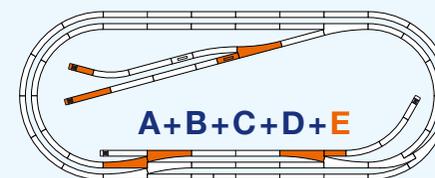


If the layout assembled from set A through C should have double track, set D should be used. The layout will then have a third station track. Track changes in both directions make the operation even more interesting.

Track set D consists of:

- 9 straight tracks G1 (42510)
- 1 straight track G1/2 (42512)
- 1 curved track R2 (42522)
- 10 curved tracks R3 (42523)
- 2 manual tournouts left W15 (42538)
- 1 manual curved turnout left BW12/3 (42558)
- 1 buffer stop kit (42608)
- 1 track end piece (42651)
- 1 substitute embankment slopes (42650)

### 42013 Track set E



Track set E expands the operating possibilities in a realistic manner by additional track connections and more sidings. Track set E consists of:

- 2 straight tracks G1/2 (42512)
- 1 straight track G1 (42510)
- 2 manual tournouts left W15 (42538)
- 2 manual tournouts right Wr15 (42539)
- 1 manual uncoupler track G1/2
- 2 buffer stop kits (42608)
- 2 track end pieces (42651)

## Flexible tracks

Even though the ROCO LINE track system offers a large choice of straight and curved track sections, prototype-oriented track planning and assembly require individually fitted track curvatures, whether for “exhibition” track sections, stations built into wide curves with 5 meter or larger radius, or combination of turnouts with tricky connections. The solution in these situations is “flex track”.



No track system for model railway application can be complete without flexible tracks. They do not conform to any specific geometry other than the length of the flexible track being exactly 4x the standard length; they may be bent as tightly as radius R2 (358 mm). For tram lines even up to 220 mm.

42400

### Flex track F4 with wooden sleepers

Length 920 mm.



42401

### Flex track F4 with concrete sleepers

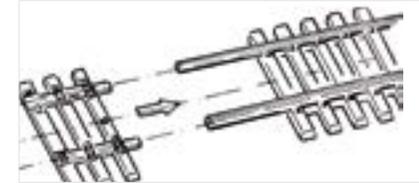
Length 920 mm.



### Use of flex track:

Flex track may be bent to any curve as tightly as radius  $R2 = 358$  mm. Since the rails will move relative to each other while bending, it is necessary to cut one rail to match.

The ROCO hobby saw 10900 (see page 31) is recommended for this purpose. When using flex track, track fixing pins, fishplates and sleeper end pieces must be used.



42600



**Sleeper end piece.** To match flex track with wooden sleepers (42400). 12 units/pack.

42601



**Sleeper end piece.** To match flex track with concrete sleepers. 12 units/pack.

Each flex track requires a track and end piece on only **one** side.

## Track bed

42660

### Track bed

suitable for 1 flex track with wooden sleepers (42400).

42661

### Track bed

suitable for 1 flex track with concrete sleepers (42401).



## Straight tracks

42406

### Straight track G4

Length 920 mm (4x standard length).



42410

### Straight track G1

Length 230 mm (standard length).



42412

### Straight track G½

Length 115 mm (half standard length).



42413

### Straight track G¼

Length 57.5 mm (quarter standard length).



42411

### Straight track DG1

Length 119 mm. Diagonal straight element.

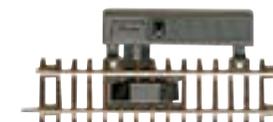


## Uncoupler track

42419

### Electric uncoupler track (G½)

Length 115 mm.

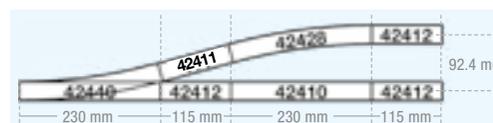


## Feeder track

42421

### Feeder track (G½)

with EMC interference suppression unit. Not suitable for digital operation! Length 115 mm.



**DG1:** The diagonal straight track makes the extension of the distance between the parallel tracks possible but the rail siding still remains on the grid line.

## Curved tracks

42422

**Curved track R2**  
Radius 358 mm, 30°



42423

**Curved track R3**  
Radius 419.6 mm, 30°



42424

**Curved track R4**  
Radius 481.2 mm, 30°



42425

**Curved track R5**  
Radius 542.8 mm, 30°



42426

**Curved track R6**  
Radius 604.4 mm, 30°



42427

**Curved track R9**  
Radius 826.4 mm, 15°



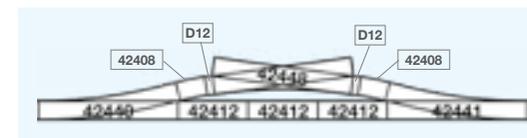
12 pieces of radii R2–R6 are needed for each full circle.

42408

**Curved track R2 ¼**  
Radius 358 mm, 7.5°



R2 ¼



42409

**Curved track R3 ¼**  
Radius 419.6 mm, 7.5°



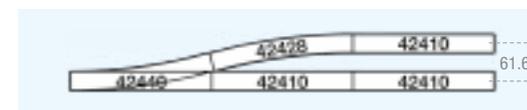
R3 ¼

42428

**Curved track R10**  
Radius 888 mm, 15° - Opposite curve for 15° turnouts and crossings.



R10



42430

**Curved track R20**  
Radius 1962 mm, 5°.  
Two piece constitute complementary curve for 10° turnouts and crossings.



R20



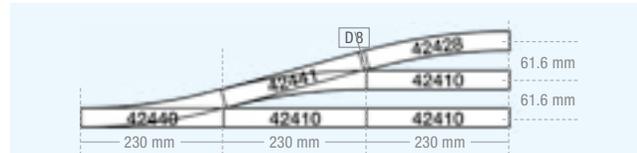
## Turnouts 15° / Crossings

42440

### Turnout left W15

Length 230 mm (= standard length G1), branch angle 15°, branch radius 873.5 mm. An 8-mm spacer element (D8) is included for diagonal installation.

Suitable motor:  
40295, 40297, 10030



42441

### Turnout right Wr15

Built as 42440

42448

### Single slip turnout EKW15, Standard design with internal switch rails.

Length 230 mm, branch angle 15°, branch radius 531 mm.

For diagonal installation two D4 and one D12 are included.

Suitable motor:  
2x 40295/40297 or 2x 10030



42497



### Crossing K15, Length 230 mm, branch angle 15°.

By using a 10019 relay it is possible to polarize the frogs and incorporate the crossing like a normal solenoid accessory in a route locking. The railroad lines that cross each other are not electrically isolated. Two D4 and one D12 are included for diagonal installation.

15°  
Crossing

42451

**Double slip turnout DKW15**, Design "Baeseler" with closure blades located at the outside. Length 230 mm. Branch angle 15°, effective branch radius 1050 mm.

For diagonal installation two D4 and one D 12 are included.

Suitable motor:  
2x 40295/40296, 2x 40297/40298 or 2x 10030

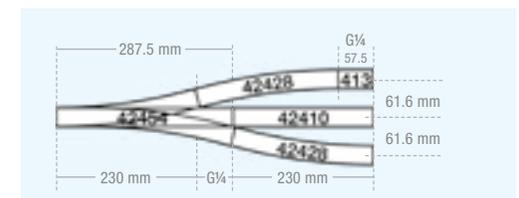


Owing to the geometrical characteristics of this type of double slip turnout it is necessary to always use it polarized.

42454

**Three-way turnout DWW15**, Length 287.5 mm (= G1 + G¼), branch angle 15° each, branch radius 873.5 mm. To adapt the length a 57.5 mm G¼ straight track element and spacers D12 and D4 are included.

Suitable motor:  
2x 40296 or 2x 10030



## Turnouts 10° / Crossings

42488

### Turnout left W110

Length 345 mm (G1 + G½), branch angle 10°, branch radius 1946 mm. A 5-mm spacer element (D5) is included for diagonal installation.

Suitable motor:

40295, 40297, 10030

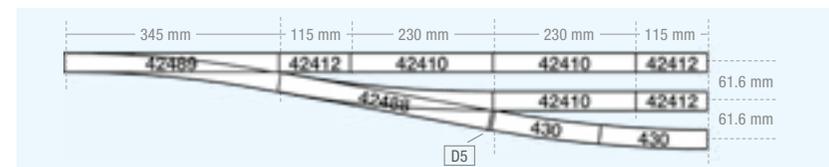


42489

### Turnout right Wr10

Suitable motor:

40296, 40298, 10030



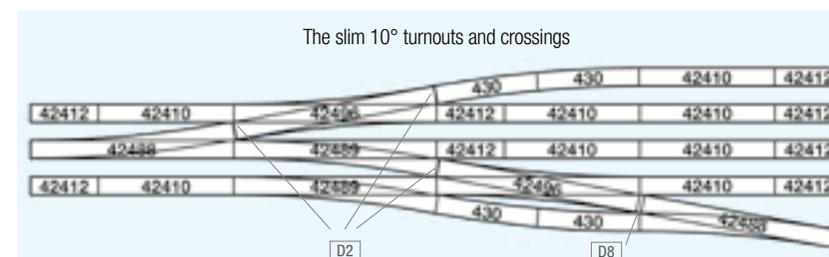
42493

**Single slip turnout EKW10.** Length 345 mm, crossing angle 10°, branch radius 959 mm.

For installation crossing from left or right two 2.5 mm spacers (D2) are included. An 8 mm spacer element (D8) is included for combining with diagonally installed 10° turnouts.

Suitable motor:

2x 40295/40297 or 2x 10030

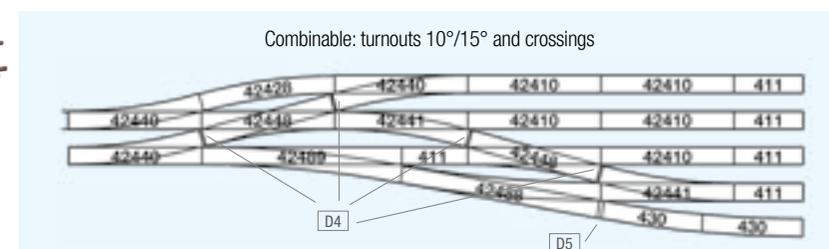


42496

**Double slip turnout DKW10,** standard design with internal switch rails, Length 345 mm. Crossing angle 10°, branch radius 959 mm. For installation crossing from left or right two 2.5 mm spacers (D2) are included. An 8 mm spacer element (D8) is included for combining with diagonally installed 10° turnouts.

Suitable motor:

2x 40295, 2x 40297 or 2x 10030



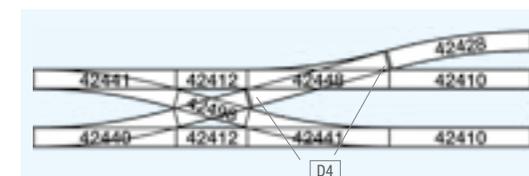
42498

**Crossing K30,** Length of tracks 119 mm (= DG1). Crossing angle 30°.

The railroad lines that cross each other are not electrically isolated. Among other things they are suitable for forming double track connections with the 15° turnouts or double slip turnouts.



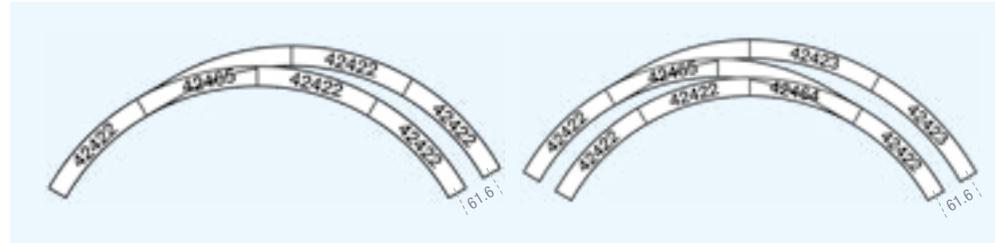
30°  
Crossing



**Curved turnouts**

**R2/R3:** The use of the curved turnout R2/R3 for long 'to-scale' express train coaches (length over buffers more than 300 mm) is inconvenient.

**R2/R3**



42464

**Curved turnout left BWI2/3**

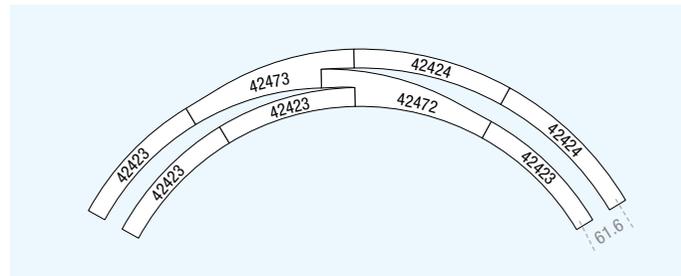
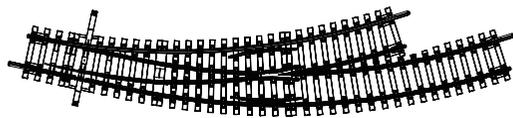
Radius of main track and branch track 358 mm (R2), arc angle 30°. Suitable motor: 40295/40296, 40297/40298 or 10030.

42465

**Curved turnout right BWr2/3**

Radius of main track and branch track 358 mm (R2), arc angle 30°. Suitable motor: 40296/40295, 40297/40298 or 10030.

**R3/R4**



42472

**Curved turnout left BWI3/4**

Radius of main track and branch track 419.6 mm (R3), arc angle 30°. Suitable motor: 40295/40296, 40297/40298 or 10030.

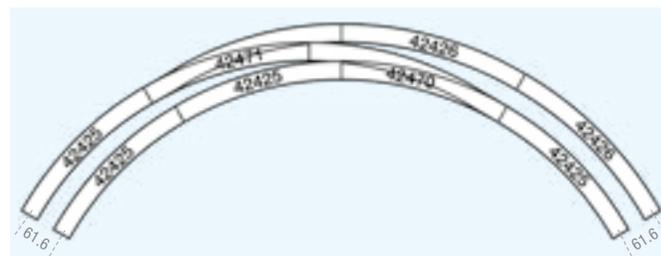
- ▶ Newly designed frog pieces ensure a smooth crossing
- ▶ Switch opening/width in the frog piece area according to NEM standards

42473

**Curved turnout right BWr3/4**

Radius of main track and branch track 419.6 mm (R3), arc angle 30°. Suitable motor: 40295/40296, 40297/40298 or 10030.

R5/R6



42470

**Curved turnout left BWI5/6**

Radius of main track and branch track 542.8 mm (R5), arc angle 30°.  
Suitable motor: 40295/40296, 40297/40298 or 10030.

42471

**Curved turnout right BWr5/6**

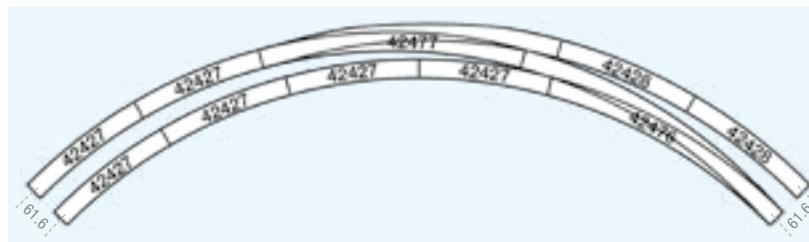
Radius of main track and branch track 542.8 mm (R5), arc angle 30°.  
Suitable motor: 40295/40296, 40297/40298 or 10030.

R9/R10

42476

**Curved turnout left BWI9/10**

Radius of main track and branch track 826.4 mm (R9), arc angle 30°.  
Suitable motor: 40295/40296, 40297/40298 or 10030.



42477

**Curved turnout right BWr9/10**

Radius of main track and branch track 826.4 mm (R9), arc angle 30°.  
Suitable motor: 40295/40296, 40297/40298 or 10030.



## ROCO LINE turntable with electric below-baseboard propulsion mechanism and control unit

42615

Suitable for all NEM (European model railway standard) compatible two-rail DC and three-rail AC model railways. Bridge length: 253 mm; this is equivalent to 22 m on an original railway. The minimum angle between two track connections is 9 degrees. Spacers for 1°, 3°, 6° and 9° divisions are supplied with the turntable. This means that any division from 9° upwards in 1° stages between the track connections is feasible. The maximum number of track connections that can be made is 40.

Four track connections for two-rail DC operation are supplied with the turntable. Further track connections are available as accessories (42616). If the turntable is to be used with a three-rail AC model railway, your specialist dealer will exchange the enclosed original DC pack to a pack of three-rail AC track connections (42617).

The turntable bridge drive is powered by 14 V AC. Depending on the system used, traction power supply will either be DC or AC. The turntable is equipped with a control unit for preselecting the direction of rotation and starting the turntable rotation. When you let go of the turntable switch, the turntable halts exactly at the next track connection.

Just like on a real-life turntable, it is also possible to choose between two rotation directions. Traction power is fed in via the turntable. The traction voltage of the track connections can be assigned via the control unit. This prevents a locomotive that is currently parked from inadvertently moving off if two track connections are located directly opposite to one another.\*

One 1-meter 5-pole cable (connection between transformer and control unit) and one 2-meter 8-pole cable (connection between control unit with the turntable) are enclosed.

### Installation dimensions:

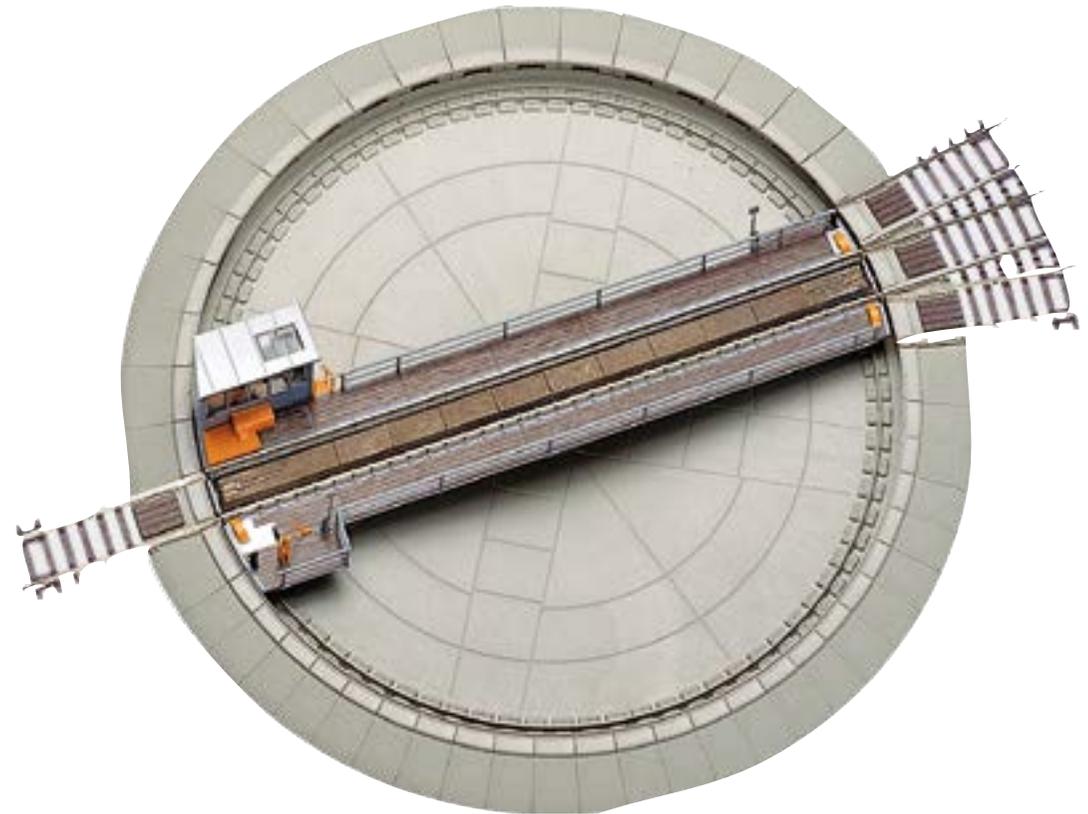
Required installation opening: 280 mm.

Installation depth measured from table top edge: 50 mm.

External diameter of the turntable without track connections: 307 mm.

Turntable bridge length: 253 mm.

Suitable for all locomotives up to a total wheel base of 250 mm.



42616

### DC track connections

Content: 4 units 2L = track connections, for turntable 42615.



42617

### AC track connections

Content: 3 units 3L ~ track connections, for turntable 42615.



\* The terminal loop module is required when using the turntable in DCC mode (digital).



## Universal bedding turnout drive

42620

### Universal bedding turnout drive

Low switching current consumption, limit switch.



**Note please:** Like all ROCO turnout drives, this drive of course features a limit turnout. However, as the adjuster of the drive is held in its end position by the tongue adjustment mechanism of the turnout itself (and only then will the limit switch function reliably), please do not try out the turnout drive unless it is clip-connected to a turnout.

42624

### Digital turnout drive

Suitable for all ROCO LINE bedding turnouts.



The digital turnout drive is simply plugged into the recess on the underside of the turnouts. The electrical connection is made with two cables directly to the rail profiles. The digital turnout drive already includes a DCC decoder (this new version is Rail-Com\* compatible) and can be programmed after installation.

## Track ballast

42652



Matches roadbed track in terms of colour and grain. Genuine stone ballast.

## Substitute embankment slopes

42650



Length 360 mm each.  
6 pc./pack.

## Ballast board

42653



Ballast board to fill in the spaces between the tracks in the train station area. Colour and grain size match the bedding track. Size: 345x93 mm.  
3 pc./pack.

## Embankment end piece

42651



These end pieces provide a neat closure of the bedding at buffer stops, display cases etc.  
6 pc./pack.

\* RailCom is a registered trademark of Lenz Elektronik GmbH



40295



**Electric turnout mechanism left**  
for Roco LINE turnouts without bedding.

40296



**Electric turnout mechanism right**  
for Roco LINE turnouts without bedding.

40297



**Manual turnout mechanism left**  
for Roco LINE turnouts without bedding.

40298



**Manual turnout mechanism right**  
for Roco LINE turnouts without bedding.

10030



**Below baseboard turnout mechanism** can be used for all Roco rail systems. Low energy consumption, shut off mechanism, 4 single-pole double-throw switches. Can also be installed horizontally. Dimensions approx. 60 x 27 x 45 mm

40293



**Below baseboard set of lanterns** to match general purpose below baseboard propulsion mechanism 10030 (optionally DB or SBB) and coupled 90° rotation. Use only for turnouts without bedding.

40292



**General purpose beneath board uncoupler**  
Suitable for later mounting for all two-rail DC track systems. Size of the propulsion unit: approx. 80 x 40 x 15 mm

42605



**Sleeper Roco LINE.** With built-in reed switch, to be actuated by means of a 42256 magnet. This potential-free switching contact can be installed at any point of a track layout.

42256



**Magnets** to trigger the 42605 and 61193 sleeper. Very small construction, therefore can easily be mounted beneath any vehicle. 6 pc./pack.

42613



**2-pole connecting cable.** With mounted rail clips for Roco LINE tracks. This cable has no interference suppressor units (EMC) and may only be used for halting sections in front of signals etc. Please use 42421/42521 as the feeder track.

42610



**Rail joiners**  
24 pc./pack.

42611



**Plastic insulating rail joiners**  
24 pc./pack.

42612



**Adapter rail clips**  
Adapter rail clips for rail systems with a 2.5-mm rail profile on the Roco LINE track. 24 pc./pack.

10000



**Track fixing pins, short**  
For fastening tracks without roadbed, approx. 400 pc./pack.

10001



**Track fixing pins, long**  
For fastening GEOLINE and Roco LINE tracks with roadbed, approx. 500 pc./pack.



98019

**RP-25 frog inserts** for ROCO LINE turnouts of the 10° system and ROCO LINE curved turnouts R5/R6.



98020

**RP-25 frog inserts** for ROCO LINE turnouts with branch angle of 15°.

**RP-25:** Uses for ROCO LINE tracks: While most NEM wheels have a flange height of about 1 mm, RP-25 wheels have a flange height of only 0.64 mm. If you run models with RP-25 wheels over the core pieces of standard turnouts, the jolts make the height difference noticeable. Inserts made of etched brass sheets allow rolling stock with RP-25 wheels to run smoothly.

40020

**Main aspect signal**



40021

**Triplicated aspect signal of the SNCF**



The signal is factory-equipped with the third, orange LED in conformity with the SNCF signal manual. Owing to the major difference in the meaning of the signal illustrations, please pay heed to the information in the operating instructions.



42267

**Buffer stop (construction kit)**

Optionally with wood plank or bumpers. For all gauge H0 track systems. Content: 1 piece



42608

**Buffer stop (construction kit)**

Prototypical stable construction for all gauge H0 track systems. Including 2 brake shoes to clip onto the rail. Content: 1 piece



42606

**Rerailer**

Rerailer makes it easier to place the vehicles on tracks. **For all gauge H0 track systems.**



42609

**Wheel retracker set**

Places derailed wheels back on track. **For GEOLINE and ROCO LINE tracks.** (Construction kit without track.)



10002

**ROCO rubber**

Track cleaning rubber; this special rubber is excellent for cleaning the rails of dirt and oil residue; suitable for all gauges.



10915

**ROCO rubber, large package**

Track cleaning rubbers 10002 in large packages containing 10 rubbers each.



40019

**ROCO clean replacement wiper**

ROCO clean replacement wiper for the H0 "ROCO clean" track cleaning wagon 46400.





Photo: Anlage Freunde der Mariazellerbahn Modell

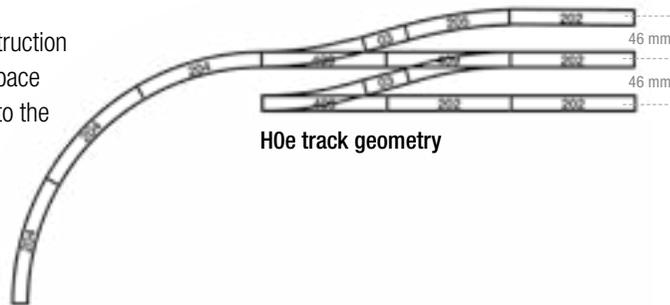


Photo: Anlage Freunde der Mariazellerbahn Modell

## H0e tracks

### Advantages:

- Simple and robust construction
- Doesn't require much space
- Visual appearance true to the original



After being scaled down, the ROCO H0e narrow-gauge tracks are in the same gauge as the N-tracks (9 mm). Arrangement, design and dimensions of the sleepers correspond exactly to the ones of the narrow gauge railway 750-/760-mm prototype. The light railway tracks also have a gauge of 9 mm. True to the original, the distances between the sleepers are even bigger here. The design of the individual sleepers corresponds to the roughly worked wooden planks that are often used with light railways.

For the operation of your light or narrow-gauge railway we would like to recommend our ROCO switching accessories.

## Narrow-gauge tracks

32200

### Flexible track

Length 730 mm. Gauge: 9 mm.



32210

### Sleeper end piece

matches H0e track 32200.



32409

### Turnout left, without turnout mechanism.

Length of the straight track 134.4 mm (standard length), branch angle 15°. Gauge: 9 mm.

Suitable motor: 32418 or 10030.

Turnout frog can be polarised if used with below baseboard mechanism.



32411

### Turnout right, without turnout mechanism.

Length of the straight track 134.4 mm (standard length), branch angle 15°. Gauge: 9 mm.

Suitable motor: 32419 or 10030.

Turnout frog can be polarised if used with below baseboard mechanism.



## Accessories



32418

### H0e/TT left turnout mechanism



32419

### H0e/TT right turnout mechanism

Turnout mechanisms, suitable for all H0e turnouts double spool motor with shut-off mechanism. Can be used as replacement as well as for later upgrading of manual/under-baseboard turnouts.

## Light railway tracks

32202

### Straight track

Length 134.4 mm (standard length).  
Gauge: 9 mm.



32201

### Flexible light railway track

Length 730 mm. Gauge: 9 mm.



32203

### Straight track

Length 47.9 mm. Gauge: 9 mm.



32211

### Sleeper end piece

matches light railway flex track 32201.



32204

### Curved track

Radius 261.8 mm (standard radius),  
arc angle 30°. Gauge: 9 mm.



32401

### Light railway turnout, left, with electric motor.

Length of the straight track 104.2 mm. Branch angle 24°.  
Radius of the branch track 194.6 mm. Gauge: 9 mm.



32205

### Curved track

Radius 493 mm, arc angle 13.1°. Gauge: 9 mm.  
Opposite curve for narrow gauge turnouts.



32403

### Light railway turnout, right, with electric motor.

Length of the straight track 104.2 mm. Branch angle 24°.  
Radius of the branch track 194.6 mm. Gauge: 9 mm.



## Accessories



32417

**H0e track connecting cable** without radio  
suppression.



40390

**H0e stirrup coupling**  
2 pc./pack.



32413

**H0e metal rail joiners (fishplate)**  
approx. 50 pc./pack.



32414

**H0e isolating rail joiners (fishplate)**  
approx. 24 pc./pack.

## Electric turntable for track gauge TT.

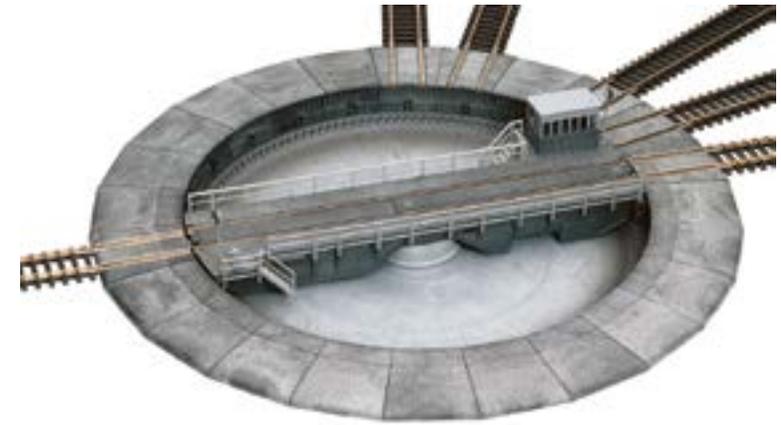
With turntable switch.

35900

Comes with 6 ascent-descent tracks.  
The maximum possible 24 ascent and descent tracks stand at an angle of 15 degrees to each other.

### Installation dimensions:

Required installation opening: 203 mm.  
Installation depth: 25 mm.  
External diameter of the turntable without track connections: 257 mm.  
Revolving platform length: 183 mm (locomotives with a wheel base length up to a 170 mm)



35901

### Complementary set for the TT turntable

The set consists of 3 ascent/descent tracks.  
A maximum of 24 tracks can be connected to the turntable.



30390

TT close-coupling  
for NEM 358 standard socket.  
2 pc./pack.



30391

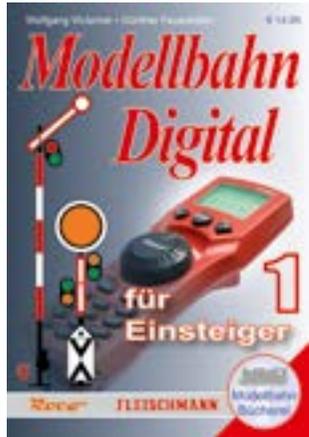
TT close-coupling  
for NEM 358 standard socket.  
50 pc./pack.





**Digital for beginners, Part 1 - German**

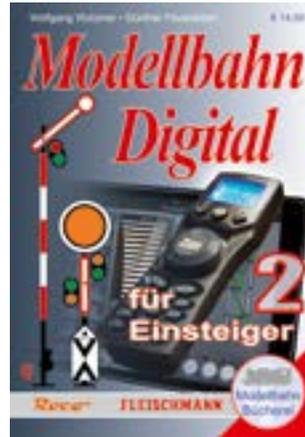
81395



What is a digital model railway and how can it be used best? This manual, edited by experts, answers the most important questions on the topic "How to digitize your own model railway layout". It provides both beginners and advanced users with valuable tips and tricks.

**Digital for beginners, Part 2 - German**

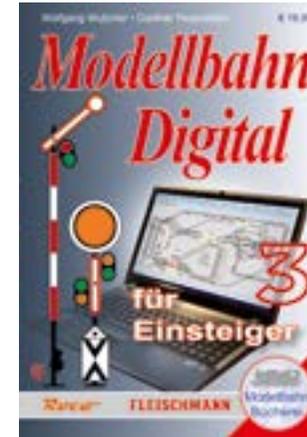
81396



If you are driving and controlling digitally with the Z21 multiMAUS, you already know the advances of the ROCO/FLEISCHMANN digital system. But how to enlarge your Starter Set, activate the wireless Z21 WLANMAUS, use tablet or smartphone for control or how to update your control units etc.

**Digital for beginners, Part 3 - German**

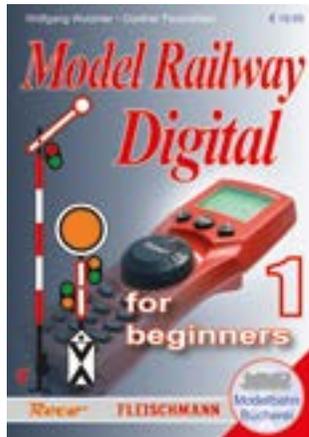
81393



In the digital age, the computer can reduce all manual work. If you still are operating your trains manually and set your points by mouse click then this book is just the right thing for you. We will help you to set up the interlocking systems and to create the connection with your layout.

**Digital for beginners, Part 1 - English**

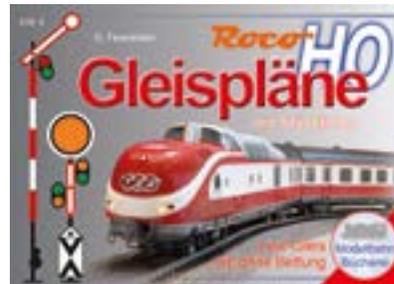
81391



This manual in English language, edited by experts, answers the most important questions on the topic "How to digitize your own model railway layout". Layout construction, programming and other functions are shown and explained here step by step.

**ROCO LINE track plans H0 - German**

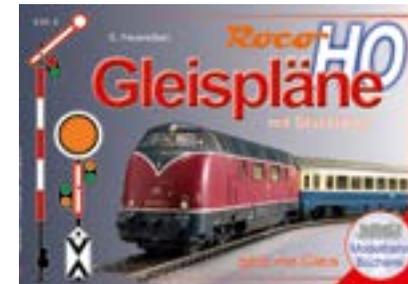
81394



This manual, edited by experts, depicts a large number of track plans that perfectly match the ROCO LINE track system. It provides the user with clear and comprehensive information about how to easily build challenging track aspects and railway layouts using the matching part lists.

**GEOLINE track plans H0 - German**

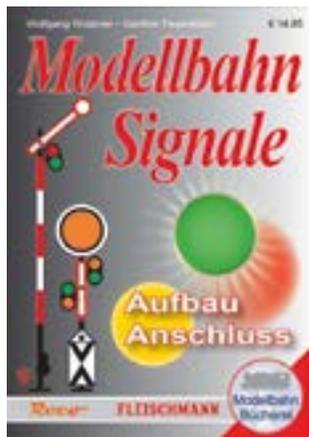
81397



This manual offers various options and gives tips how to easily build and plan a model railway. This starts with finding a suitable motive, practical ideas for the step by step structure and leads to the creation of a matching track plan.

## Signals - Setup and connection - German

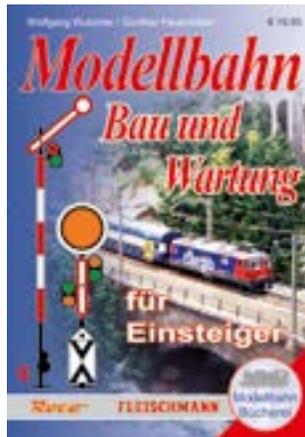
81392



This brochure explains the main electrically-powered model signals, shows you the prototypical installation location and gives specific tips on how to set them up for analog or digital switching, from block diagrams to the switching signals and rail crossings.

## Building and maintenance for beginners - German

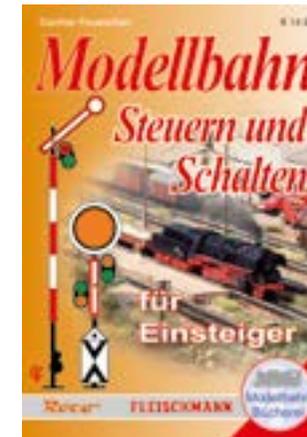
81388 Q3/2020



There is neither a patent recipe, nor a quick solution when you want to build your model railway layout at the weekend. We are happy to support you with many practical examples and tricks and hints, so you can easily build your individual layout. We are proud to help you to understand the technical conditions and how to cope with the maintenance of your vehicles and putting them into operation.

## Operate and switch for beginners - German

81389 Q1/2020

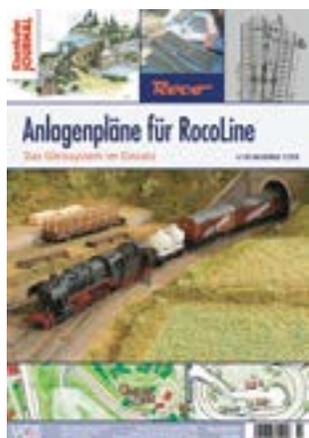


This brochure will help you to operate and connect your model railway layout. Locomotives, trains, switches, signals, gates and all sorts of accessories – everything is kept moving, everything is put into operation by electricity.

Step by step and almost playfully you will learn how to face the electrical challenges of your layout and to solve all your problems.

## Track plans for ROCO LINE - German

81390



ROCO's pioneering ROCO LINE track system has lost none of its topicality and importance since the time it was first developed – almost 30 years ago. For the EJ-editors, this is an opportunity to “dig out” their old notes and knowledge about this timeless and innovative track system and to add something new, in short: to explain what can be done with this track system and how the track geometry works. A comprehensive selection of interesting track planning programmes and, of course, a wide variety of track plans and track layout ideas can be found in the manual. The range spans from simple oval/compact systems to medium-sized prototype implementations and ROCO LINE adaptations of track layouts from the professional workshop of Josef Brandl.



Inhalt		10723	21	10905	31	40025	32	40199	29	40501	31
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10616	21	10819	9	32414	59	40184	28	40343	25	42426	47
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The logo for the Roco Photo Competition 2018. It features a large, stylized number '3' in the center. On either side of the '3' are two curved lines representing train tracks, with small rectangular shapes along them representing rails. The text '2018' is positioned above the '3', 'Roco' is below it, and 'Photo Competition' is at the bottom.