# ACCESSORIES 2022

www.fleischmann.de





### Dear FLEISCHMANN fans,

In addition to perfect, finely detailed models with optimised operating characteristics, a model railway system needs one thing above all else: Accessories!

For this reason, our comprehensive catalogue contains the entire FLEISCHMANN Accessories product range. This includes, amongst other things, our popular Z21 system, an intuitive digital control system that has already convinced tens of thousands of users worldwide. Convince yourself of the diverse expansion possibilities and become a Z21 fan too!

This catalogue also provides you with the perfect overview over our comprehensive N track systems. Whether with or without a track bed: FLEISCHMANN has almost every track you might require in its range. The perfectly designed geometry leaves nothing to be desired.

The catalogue provides you with the perfect overview. However, should you still have questions, our Customer Service Team will be happy to advise you directly.

We wish you much enjoyment during the creation of your great little world!

Your FLEISCHMANN-Team



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# DIGITAL SYSTEM FOR ALL GAUCHES



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#### All advantages at one glance

- Wireless controlling via tablet, smartphone, and the Z21 WLANMAUS
- High-capacity administration for a large rolling stock (up to 9,999 locomotive and 2,048 turnout adresses)
- Open multi-protocol centre supporting DCC and Motorola\*\* formats

- Upgrade for already existing digital layouts through downwards-compatibility, i.e. Z21 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

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<b>Z21</b> System	Available in start set	Combination with z21 WiFi Package 10814/10818	Available in start set	<b>Z21</b> 10820	Z21 XL Series
	without z21 WiFi package		incl. WiFi router	Zai incl. WiFi router	incl. WiFi Router
Plug & play system	Ø	Ø	Ø		
2 X-Bus ports on the front	<b>⊠</b> Í	Ø	Ø	<b>⊠</b>	
1 X-Bus ports on the back				Ø	
DCC & MM	Ø	Ø	Ø	<b>⊠</b>	<b>⊠</b>
POM programming, POM reading, CV programming and CV reading	Ø	Ø	Ø	M	Ø
B-Bus and R-Bus	Ø	Ø	Ø	Ø	Ø
Configurable with the Maintenance Tool	$\square$	Ø	$\square$	Ø	
Regulation with comfortable Z21 app and diverse hand held controller		Ø	Ø	Ø	Ø
Photorealistic driver's cab on Android tablet and iPad		Ø		Ø	Ø
LocoNet and sniffer Bus port					
CAN Bus - allows comfortable configuration of new Z21 components				<i>⊠</i> í	Ø
Adjustment options for track voltage					
Separate programming track output with Zimo decoder update process				Ø	Ø
Gauges	N – H0	N – H0	N – H0	N – H0	0 – 2



#### Z21 digital control centre

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.

#### Content:

- 1 Z21 digital control centre
- 1 switching power supply (10851
- 1 pre-configured WiFi router for Plug & Play operations incl. switching power supply

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3 back plug terminal RM3,5 2p



#### Z21 multiMAUS

#### Art. Nr.: 10835

The Z21 multiMAUS is a digital control centre that enables you to control your trains, use digital functions, switch turnouts and signals and much more. The clear design in combination with easy operation handling makes the Z21 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.

#### Possibilities

- ▶ 64 locomotives with 5 digits names
- Up to 29 functions can be activated per locomotive
- ▶ Up to 1,024 magnetic items switchable
- ► Write and read configuration variables (DCC CVs)



#### Z21 WLANMAUS

#### Art. Nr.: 10813

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 2,048 magnetic items switchable



www.z21.eu

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#### z21 start base digital set



#### Content:

1 z21 start digital control centre 1 Z21 multiMAUS 1 plug-in power supply



RE375



The **z21 start** offers everything needes to get started immediately:

- Digital controlling of locomotives and simple reading and programming with the Z21 multiMAUS.
- ► Possible connection of several Z21 multiMAUS devices (for parallel controlling of several locomotives).
- ▶ Prepared for WiFi

#### z21 WiFi package



Art. Nr.: 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.



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#### Z21 professional digital set

Art. Nr.: 10834

#### Content:

#### 1 Z21 digital control centre 1 WiFi router 1 Z21 WLANMAUS 1 plug-in power supply





### z21 unlock code



#### Art. Nr.: 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.





#### Z21 XL Series digital control centre

The new Z21 XL series has been especially adapted for the requirements of large gauges (0, 1, 2, G), and unites the advantages and the convenience of the Z21 system with high output voltages.

#### Art. Nr.: 10870

- ▶ More output voltage with 6 A at 20 V
- Control via WiFi provides high range and transmission security
- ▶ Convenient Z21 App and Z21 WLANMAUS for the control of your entire system

#### **Content:**

1 Z21 XL Series digital control centre1 Plug-in power supply and cable 6 A, 20 V1 WiFi router & plug-in power supply





#### **Z21 XL BOOSTER**

#### Art. Nr.: 10869

- Output voltage 6 A at 20 V
- Track format DCC and Motorola\*\*
- ► B-BUS
- ► CAN-BUS
- CDE interface
- ▶ RailCom\* receiver and transmission to control centre (CAN)
- Forwarding of short-circuits to control centre (adjustable)
- ► Firmware update (CAN)
- ▶ RailCom\* cut-out adjustable

#### Art. Nr.: 10857

Suitable power supply 120 W (see page 11)



#### Art. Nr.: 10836

#### Z21 switch DECODER

The Z21 switch DECODER is an universally applicable DCC switching decoder with a power output of 2 Amperes for up to 8 turnouts or up to 16 elements such as LEDs and bulbs.

#### Adjustable outputs

Each of the 8 output pairs can be set to different modes independently of the other. These are already pre-configured and can simply be selected. Each output pair can also be individually dimmed so that lighting can be adapted precisely to requirements.

It perfectly can be combined with:

- Twin coil motors
- Simple light signals
- All kind of illumination
- Control of relays

#### Highlights:

- ▶ 8 output pairs can be set independently
- Optional power supply via extra applied switching power supply
- ▶ Programmable with RailCom\* on the main track (POM)
- Short-circuit protection against overload
- ▶ Updateable



#### Art. Nr.: 10837

#### Z21 signal DECODER

The Z21 signal DECODER is a universally applicable DCC decoder for complex light signals. Operation is even easier with the Z21 app as the signal types are also stored in the app and can be read out automatically from the decoder. This can be conveniently done via Z21 pro LINK.

- Updateable
- Extensively configurable
- RailCom\* compatible

#### Over 30 signal types are included, such as:

- Germany: H/V signals, Ks signals, HI signals, block signals, ...
- ► Austria: Main signals class 1980 and 1954, pre-signals, protections signals, ...

▶ Switzerland: System L, system N, Signals for shunting service, ... Additional signal types can of course be added by using the update function via the Z21 pro LINK.





#### Art. Nr.: 10838

#### Z21 pro LINK

The configuring and networking of your Z21 hardware is getting even simpler and more convenient. In addition the Z21 pro LINK also stands out thanks to easy operation and the ability to keep up to date with updates.

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Configuration and networking of your Z21 components at a new level:

- ▶ No complex CV tables
- With integrated web server
- Installed WiFi

#### The 3 essential functions:

#### 1. Configuring

The Z21 pro LINK always automatically detects which device it is currently connected to. You can conveniently configure this device via the installed display and buttons without the need of any other components. Or you carry out the necessary adjustments via Z21 pro LINK website on your PC or smartphone.

#### 2. Updating

Always keep your Z21 system up to date and benefit permanently from all new functions. You can perform this easily with the Z21 Up-dater App for iOS and Android or via PC with the Z21 Maintenance Tool.

#### 3. Controlling

The Z21 pro LINK also networks all of your devices with zLink interface. It enables to perform communication with control commands and status queries directly via WiFi. Therewith the "Internet of Moba Things" has become reality.

> Here the link to the video: Z21 pro LINK in action



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# **H**leisc<u>hman</u>n



#### Art. Nr.: 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

#### Art. Nr.: 10851

Suitable power supply 54 W (see page 11)



**Z21 single BOOSTER** 

► Adjustable track voltage (12 V-24 V)

Terminal loop feature with short-circuit

• Brake generator feature configurable

Suitable power supply 54 W (see page 11)

▶ Connections via CAN-Bus, B-Bus, CDE-Bus

Configuration and update simply by PC via CAN

Art. Nr.: 10806

▶ Power 3 A (track output)

RailCom\* global detector

detector

Art. Nr.: 10851

### **Z21 dual BOOSTER**

Art. Nr.: 10807

Z21 an 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 PC via CAN

#### Art. Nr.: 10857

Suitable power supply 120 W (see page 11)



#### Art. Nr.: 10804

#### **Z21 CAN HUB**

- Additional 2 A power supply for CAN-Bus
- ► 3 CAN outputs

Art. Nr.: 10850

- ▶ 1 Z-CAN output with booster signal amplification
- Ideal for large track layouts with many CAN users
- Including a connecting cable for CAN-Bus

Suitable power supply 36 W (see page 11)



Art. Nr.: 10808

#### **Z21 DETECTOR**

- 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 via button or CAN



#### Art. Nr.: 10819

### Z21 DETECTOR x16

- 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



Art. Nr.: 10797

### Z21 multi LOOP

- ▶ 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



# DIGITAL COMPONENTS



#### Art. Nr.: 10789

#### Z21 CDE booster adapter

The booster adapter is used to facilitate connection of up to 15 Boosters with CDE ports to the Boosterbus. To supply the adapter with voltage, there is an X-BUS connection. Status LEDs display the 12 V supply as well as an active CDE output stage, and the adapter also has overcurrent and short circuit shut-down protection on the CDE output.

The booster adapter can be used on the following central units or amplifiers: Digital amplifier (10764), multiZENTRALE<sup>pro</sup> (10832) and z21, z21 start as well as Z21 (10820, 10822).



# Switching power supply 36 watts

Art. Nr.: 10850

Ideal for Z21 CAN HUB and z21 start. Output voltage: 18 V =

Protection against:
 Overload, short circuit, over-tension



#### Art. Nr.: 10859

Art. Nr.: 96341

Protection against:

# USB switching power supply 5 watts

Ideal for Z21 pro LINK. With USB-A to Micro-USB-B cable.

Power supply 40 watts Mean-

well (USA & AUSTRALIA)

Ideal for z21, z21 start and Z21 CAN HUB.

Overload, short circuit, back feed



#### Art. Nr.: 10851

# Switching power supply 54 watts

Ideal for Z21, z21, Z21 single BOOSTER, Z21 light BOOSTER.

▶ Protection against:

Overload, short circuit, over-tension

#### Technical data:

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



# Power supply 90 watts (USA & AUSTRALIA)

Ideal for Z21, smart RAIL, Digital amplifier, Z21 switch DECODER, Digital booster, z21 start, Z21 single BOOSTER, Z21 light BOOSTER and the multiZENTRALEpro.

 Protection against: Overload, short circuit, over-tension, overtemperature



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#### Art. Nr.: 10857

# Switching power supply 120 watts

Ideal for Z21 dual BOOSTER und Z21 XL BOOSTER.

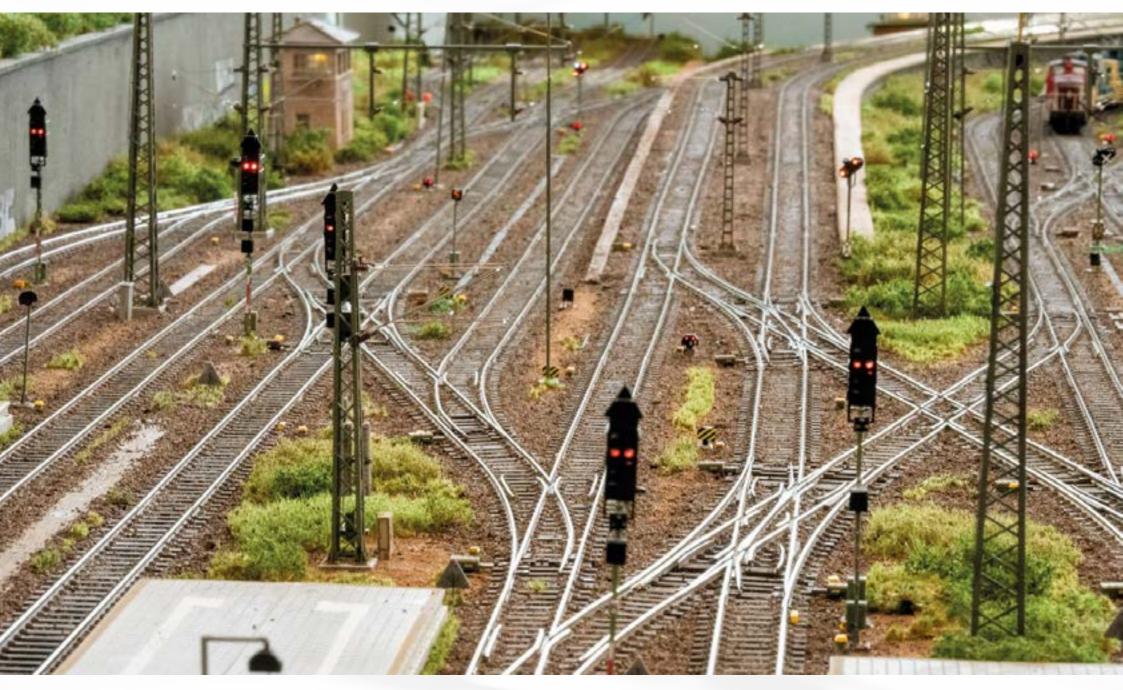
 Protection against:
 Overload, short circuit, over-tension, overtemperature

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





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# **DIGITAL COMPONENTS**

#### Connection cables for digital components



Art. Nr.: 10754

#### Highly flexible 6-pole spiral cable

Connection between Z21 multiMAUS (10835, 10810) and 10820, 10822, 10815, 10764. Suitable for the FLEISCHMANN multiMAUS from digital start sets. Length approx. 2 m



#### Art. Nr.: 10756

6-pin data bus replacement cable

Replacement cable for Z21 multiMAUS (10810), Lokmaus (10760, 10792), turnout keyboard (10770) or RouteControl (10772). It cannot be used to extend connector cables for Lokmaus 1 (Item no. 10750). Length approx. 2 m



#### Art. Nr.: 10753

**CAN BUS Cable** 

For connecting Z21 CAN devices. Length approx. 2 m



#### Art. Nr.: 136100

#### Z21 Loconet Slave cabel

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

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#### **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



Art. Nr.: 10758

#### 4-pin data bus distributor module

To connect further input units (for example Lokmaus or Z21 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.

# **Z21**

### www.z21.eu

More information about Z21 model railway control, Z21 app, updater app, maintenance tool such as schematic signal box etc. you can find on our website, in the Z21 brochure and from

your specialist retailer.







#### 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.

#### Z21 app

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. In addition the Z21 system also supports automatic synchronisation with multiple input devices.



**Download in the app Store for iOS or in the Google Play Store for Android!** The app is available as a free download and can also be tested without using a Z21 system. 09:05

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Here the link to the video: Z21 app tutorial - controlling



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#### 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 eves 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 ETA 150 up to the Re 4/4, 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 the ETA 150/class 515



#### Driver's cab of the Re 4/4

225

1 2 3 4 5 6 Speed display

FOR STREET, STREET, STREET, STREET, STREET, ST.

- Traction current and battery current display
- Speed step switch to set up and speed up
- Brake lever
- Door controls for opening and closing
- Operational function keys

Main switch 123456789 Locomotive brake Car brake Direction switch Whistle Emergency stop Train headlight Fan Pantograph Brake line pressure 10





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#### The new generation of feedback decoders Characteristics of the locomotive decoder:

#### 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.

#### **Characteristics of the sound decoder (in addition to the locomotive decoder):** 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





Art. Nr.: 685404

#### 6-pole decoder with plug (NEM 651)

#### Decoder specifications:

Dimensions: 14 x 9 x 2.5 mm, Length of pigtail: ca. 80 mm, 0.8 A constant current, 1.5 A peak current (ca. 20 ms), 4 function exits, current limit for the function exits: total: 0.5 A, 2 logic level exits, SUSI, DCC, MM, RailCom\* and much more.

Corresponds to: ZIMO MX622 with leads

Art. Nr.: 685504

#### 6-pole decoder with plug (NEM 651)

#### Decoder specifications:

Dimensions: 14 x 9 x 2.5 mm, Lead length approx. 35 mm. 0.8 A constant current, 1.5 A peak current (ca. 20 ms), 4 function exits, current limit for the function exits: total: 0.5 A, 2 logic level exits, SUSI, DCC, MM, RailCom\* and much more.

Corresponds to: ZIMO MX622 with leads



#### Art. Nr.: 687403

#### 6-pole decoder with plug (NEM 651)

Decoder specifications: Dimensions: 20 x 11 x 3.5 mm, Length of pigtail: 80 mm, Motor: 1000 mA, Functions: 800 mA (in total) Corresponds to: ZIMO MX630N



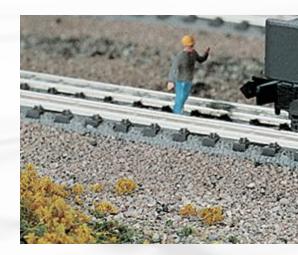
#### Art. Nr.: 685305

#### 6-pole decoder, straight Pins (NEM 651)

#### Decoder specifications:

Dimensions: 13 x 9 x 2.6 mm, 0.8 A constant current, 1.5 A peak current (ca. 20 ms), 6 function exits, current limit for the function exits: total: 0.5 A, 2 logic level exits, SUSI, DCC, MM, RailCom\* and much more.

Corresponds to: ZIMO MX617N





#### Art. Nr.: 686101

#### 6-pole decoder, straight Pins (NEM 651)

#### **Decoder specifications:**

Dimensions: 14 x 9 x 2.5 mm, 0.8 A constant current, 1.5 A peak current (ca. 20 ms), 4 function exits, current limit for the function exits: total: 0.5 A, 2 logic level exits, 2 servo control lines SUSI, DCC, MM, RailCom<sup>\*</sup> and much more.

Corresponds to: ZIMO MX622N

For further technical data please see data sheet of the article. (Downloads)

### DECODER

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8-pole decoder with plug (NEM 652)

**Decoder specifications:** 

Dimensions: 14 x 9 x 2.5 mm, 0.8 A constant current, 1.5 A peak current (ca. 20 ms), 4 function exits, current limit for the function exits: total: 0.5 A, 2 logic level exits, 2 servo control lines SUSI, DCC, MM, RailCom<sup>\*</sup> and much more.

Corresponds to: ZIMO MX622R



#### Art. Nr.: 685101

#### Next18 decoder (NEM 662)

**Decoder specifications:** Dimensions: 15 x 9.5 x 2.8 mm, 0.7 A constant current, 4 function exits, 4 logic level exits, 2 of them as servo control lines or SUSI, equipped with all ZIMO caracteristics: DCC, MM, SUSI, RailCom<sup>\*</sup>, NMRA, ZIMO function mapping and much more.

Corresponds to: ZIMO MX618N



Art. Nr.: 685602

# Next18-sound decoder (NEM 662)

**Decoder specifications:** Dimensions: 25 x 9.5 x 4 mm 0.8 A - 1W audio, 4 function exits, 4 logic level exits, 2 of them as servo control lines or SUSI, equipped with all ZIMO caracteristics: DCC, MM, SUSI, RailCom<sup>\*</sup>, NMRA, ZIMO Function mapping and much more.

Corresponds to: ZIMO MX658N18



#### Art. Nr.: 687701

#### 6-pole miniature sound decoder (NEM 651)

Decoder specifications:

Dimensions: 23 x 9 x 4 mm, 0.7 A constant current, 1.5 A peak current 4 function exits, current limit for the function exits: total: 0.5 A 2 logic level exits, SUSI, DCC, MM, RailCom<sup>\*</sup>, 8 Ohm, 1W, 32 Mbit and much more.

Corresponds to: ZIMO MX649N

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# CONTROLLER, TRANSFORMER



#### Art. Nr.: 10798

# Train controller and switching power supply

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
- Automatic overload protection
- Regulator with zero point setting

#### Art. Nr.: 10726

#### **Power distributor**



Necessary for connecting var. accessories (turnouts, light, signals, etc.) to the new transformers/switching power supplys. 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.



#### Art. Nr.: 670601

#### Light transformer for high capacity

This transformer is the high capacity power pack for the operation of electromagnetic items such as signals, turnout drives, 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 $\sim$ /2.5 A (for 10764 and 10765); Clips: 14 V $\sim$ /2.85 A. The transformer replaces the former article 6706 (FLEISCHMANN) and 10725 (ROCO).



#### DC power jack

This adapter enables the Z21 switch DECODER (10836) or the Z21 signal DECODER (10837) to be easily supplied with a switching power supply such as the 10851 or the 10850.



#### Art. Nr.: 10723

#### Switching power supply

▶ For accessory feed.

► Attention: Not suitable for z21/Z21!

#### Technical data:

Input voltage: 230 V ~ Output voltage: 15 V ~ Output current: 0.4 A

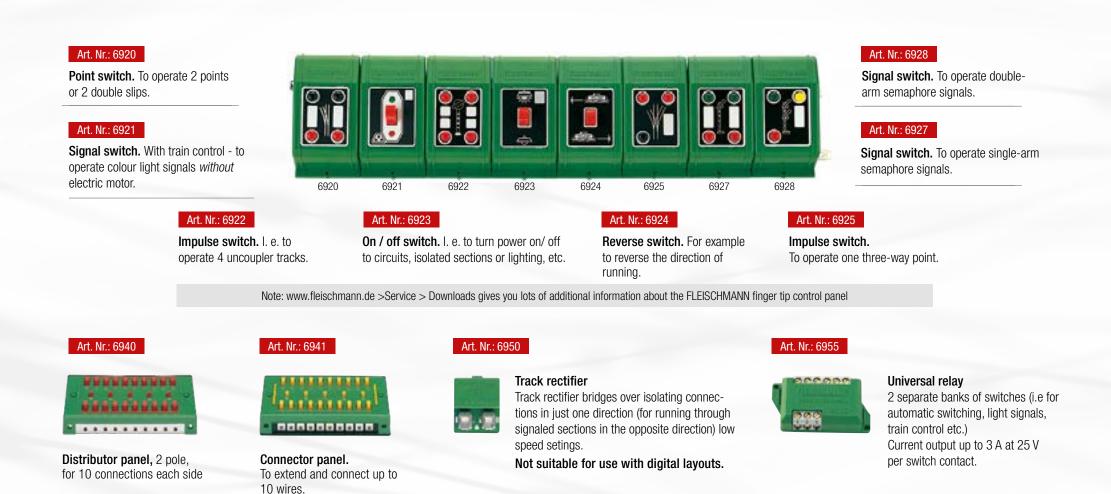
> **Please note:** The combined current requirement of the locomotives, points and lighting which you wish to operate must not be higher than the specified total current of the transformer. Otherwise, the transformer may be overloaded and switch off, or the accessories (for example, point drives) may no longer function properly.

# **SWITCHING ACCESSORIES**



#### The FLEISCHMANN finger tip control panel

Simple to plug together, clear indication panels. A robust control panel of FLEISCHMANN switches to make up a model railway signal box. All switches have indicator panels (e. g. to number the points) and are clearly marked to indicate their function. Dimension approx: 60 mm length x 33 mm width x 34 mm height



# Fleischmann TRACK SYSTEMS

FLEISCHMANN N-GAUGE track systems for your unlimited model railway enjoyment

In the comprehensive FLEISCHMANN track system range, you are sure to find the right N-gauge track for your requirements, whether you select a track systems with realistic gravel beds, with an equally finely-crafted track bed reproduction or completely without a bed, to add gravel yourself (N-gauge). Using the different track systems by FLEISCHMANN, your track plan ideas can be realised without any trouble at all!









### N TRACK SYSTEMS WITH BALLAST BED



#### The N gauge track with ballast bed

#### Technology:

- Running with the internationally widespread 2 rail DC system
- Ideal current carrying capacity even over long distances through solid profile rails made of high quality nickel silver alloy

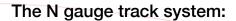
#### Visual appearance:

Realistic appearance with true to the original wood sleepers and ballast bed

#### Clear track geometry:

- Play and model train layout with many combining track layout alternatives
- Grid with track geometry
- All switches can be upgraded to electrical remote control by plugging in an electric drive





<u>9114 9136 9136 </u>

9101 9170 9100

9116

9100





#### The trackwork

The FLEISCHMANN N-gauge track system impresses customers with its realistic appearance, the prototypical wooden sleepers and the gravel beds. This is due to the perfect reproduction of the gravel size and the irregular progression of the gravel bed on the outer edges of the tracks as well as the filigree engravings on the contrasting colour wooden sleeper imitations. The width and height of the gravel bed have been selected so that they achieve a smaller parallel track distance when the tracks are laid

been selected so that they achieve a smaller parallel track distance when the tracks are laid in station areas, without the gravel bed being in the way.

#### The track geometry

levelling piece.

The basis for the track geometry of this track system is the straight "Basic" track 9101. Here the points - normal, three-way, curved and dual crossing points - are also incorporated into the track grid. Curved tracks with four radii, a flexible gravel track, with which you can also generate extremely large radii, normal, curved, three-way and dual crossing points permit you to design many interesting track combinations. Special and function tracks, decoupling tracks and a buffer stop track complete the track system, as do railway crossings and a variable

#### The "intelligent" points

Simply by plugging in the electric drive, you can subsequently retrofit all manual points on this track system for electrical remote control. All points are designed as "intelligent" points. In just a few easy steps, you can make the driving current flow only in the direction in which the points are set. In delivery condition, all points are initially through traffic points. This means that all track connections continuously transmit current. These "intelligent" points permit you to park locomotives or to move trainsets pulled by locomotives onto sidings or passing loops without requiring different wiring.

The "thinking" points allow locos, or loco hauled trains, to be stored in sidings or passing loops without any additional wiring.

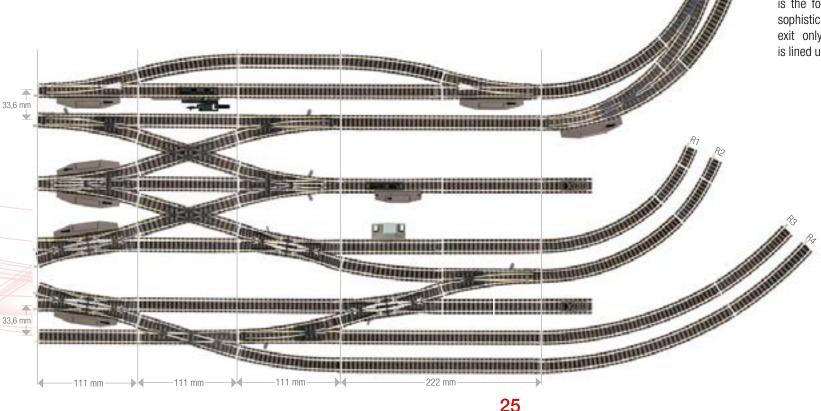
#### The parallel track distance

Two parallel running tracks, joined together via standard points, have the narrow gap of 33.6 mm (measured from track centre to track centre).

#### The turntable

R2

The electrically driven super-model turntable is the focal point of a loco depot. Due to their sophisticated technology concept – each track exit only receives power when the turntable is lined up with it – that means they can think too!





### TRACK SETS WITH BALLAST BED

With the combined track sets, you can expand step by step your beginner's layout to a large size and complex model railway layout.

#### Track set B1

#### Art. Nr.: 919010

Contents: 6 straight tracks (9100) 1 straight track (9101) 1 manual turnout left (9170) 1 buffer stop (9116)

# Track set C1

Art. Nr.: 919011

Contents: 1 straight track (9100) 2 straight tracks (9101) 1 manual turnout right (9171) 1 curved turnout right (9175) 1 curved track (9136) 1 uncoupler track (9114)

Layout size: 118 cm x 40 cm

Layout size: 118 cm x 44 cm

All track sets: Points and uncoupler tracks are adaptable with electric point motors.

### Track set D1

#### Art. Nr.: 919012

Contents: 9 straight tracks (9100) 3 straight tracks (9101) 7 curved tracks (9125) 2 manual turnouts left (9170) 1 curved turnout left (9174) 1 buffer stop (9116)

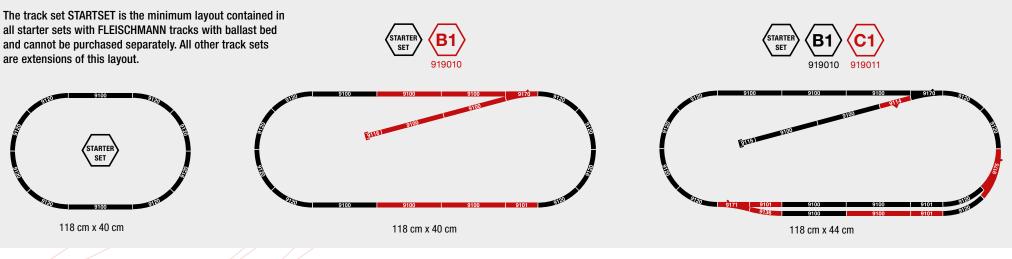
Layout size: 147 cm x 48 cm

#### Track set E1

Art. Nr.: 919013

Contents: 2 straight tracks (9101) 2 manual turnouts left (9170) 2 manual turnouts right (9171) 1 uncoupler track (9114) 2 curved tracks (9120) 2 buffer stops (9116)

Layout size: 147 cm x 48 cm



26



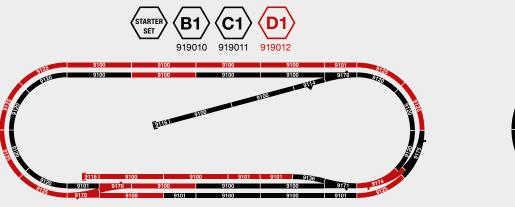
Electro set

Art. Nr.: 919501

To retrofit manual points with electric drive. The set can convert manually operated points to electromagnetic points. Remote control via control switch. Can be used for standard, curved, three-way and double slip points.

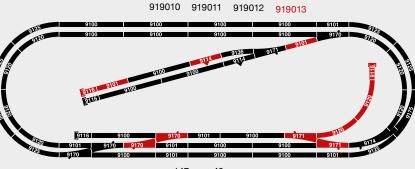
Contents: 2 electric point motors, 1 control switch 6920.





147 cm x 48 cm

www.fleischmann.de



**C1** 

(D1)

**E1** 

**⟨**В1

STARTER SET



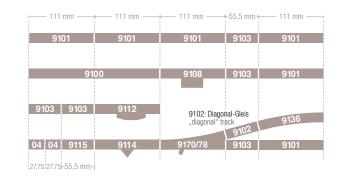
# TRACKS WITH BALLAST BED

#### Straight tracks

Art. Nr.: 9100		Straight track, length: 222 mm. (2x basic track). 20 pc./pack.
Art. Nr.: 9101		Straight track, length 111 mm (basic track). 20 pc./pack.
Art. Nr.: 9102		Straight track ("diagonal" track), length: 57.5 mm. 20 pc./pack.
Art. Nr.: 9103		Straight track, length 55,5 mm (1/2 length of basic track 9101). 20 pc./pack.
Art. Nr.: 9104		Straight track, length 27.75 mm (1/4 length of basic track 9101). 20 pc./pack.
Art. Nr.: 9110		Straight extendable track, length 83 mm to 111 mm. 5 pc./pack.
Art. Nr.: 9112		Jncoupler track with electric motor, length 111 mm.
Art. Nr.: 9114	A REAL PROPERTY AND A REAL	Manual uncoupler track, length 111 mm. 5 pc./pack.
Art. Nr.: 9414	C	Clip-on electric motor for the manual uncoupler track 9114.
Art. Nr.: 9115	2	Track with built in switch contact, length 55.5 mm. 2 pc./pack. The switching impulse (max. 800 mA) is activated
	b	by the passage of the magnets 942601 or 942701.
Art. Nr.: 9108		2-pole power feed track, length 111 mm, with interference suppressor.
		9108: The suppressor is concealed inside the lineside hut. Not suitable for use with digital operation.

#### The basic track:

Basis of the track geometry is the 111 mm track piece 9101. The straight section of the normal switch, the three-way switches and the double slip switches are also based on this track. For longer straight distances the track 9100 with double length is suitable.



#### Flexible tracks

#### Art. Nr.: 9106



Flexible track, length 777 mm.

Due to its fl exibility, this track is ideal for gentle, fl owing curves to show off the trains. Ideally suited for long straight lengths. 20 pc./pack.

#### Art. Nr.: 9119

..... Flexible rack track, length 222 mm. 10 pc./pack.. This track can be curved to the desired radius, even down to the minimum radius R1(9120). The rack section always remains the same length, although the rail section will need to be trimmed to length accordingly. - Can be joined using the rail joiners 9403 or 9404.

Buffer stop, length 57.5 mm. 5 pc./pack.

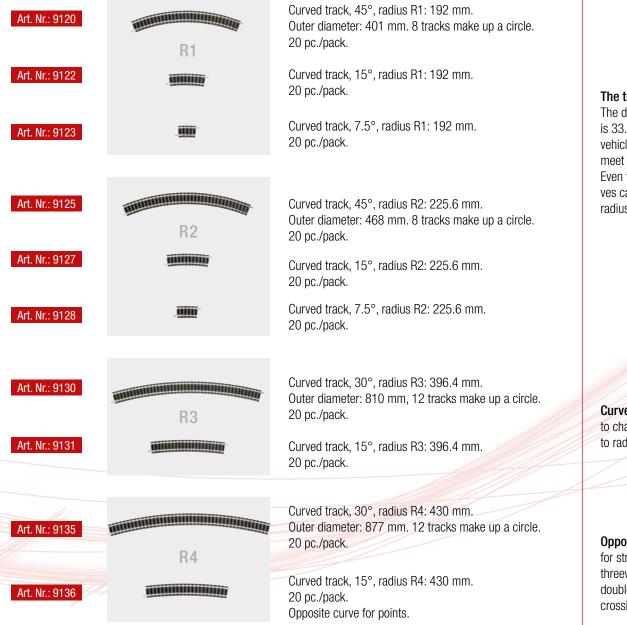
REXTIN

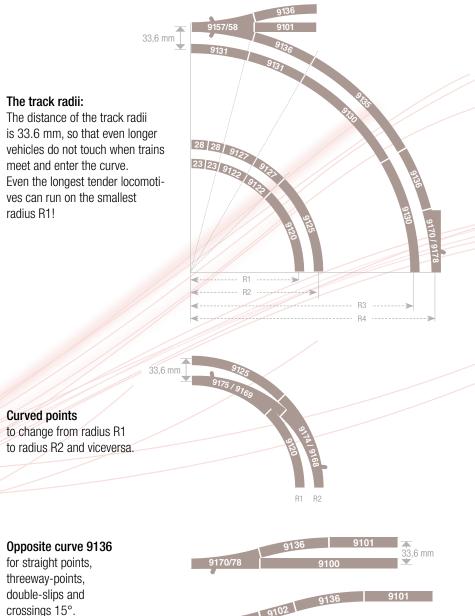
Art. Nr.: 9116

Foto: FLM-Archiv



#### **Curved tracks**



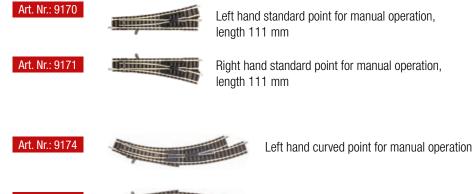


9170/78



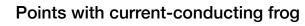
# TRACKS WITH BALLAST BED

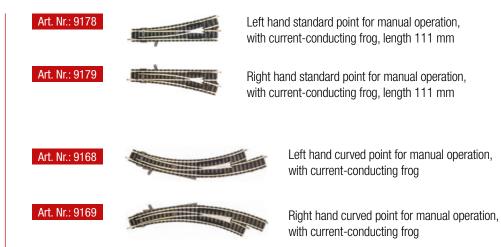
#### **Points**





Right hand curved point for manual operationb

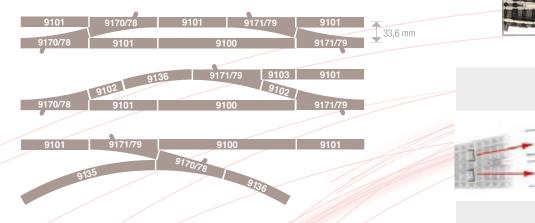




#### Straight points (standard and three-way points, double slips):

Length 111 mm (standard length), branch-off angle 15°, branch-off radius 430 mm. The branch-off tracks correspond to track 9136 (15°).

The track 9136 serves as opposite curve and leads to the parallel track distance of 33.6 mm.



All points are adaptable with electric point motors.



#### The current-conducting frog

On several points, the current-conducting frog ensures good electrical contact when running through frog area of the points.

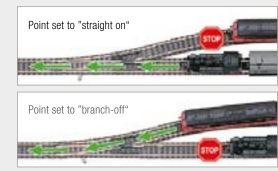
These points cannot be "slipped" through whilst set in the wrong direction, otherwise this can cause a short circuit. Therefore, the points must always be set in the right direction.

The polarisation of the frog, in other words, the changing from "positive" to "negative", which is essential as the points are set, is carried out automatically when setting the point.

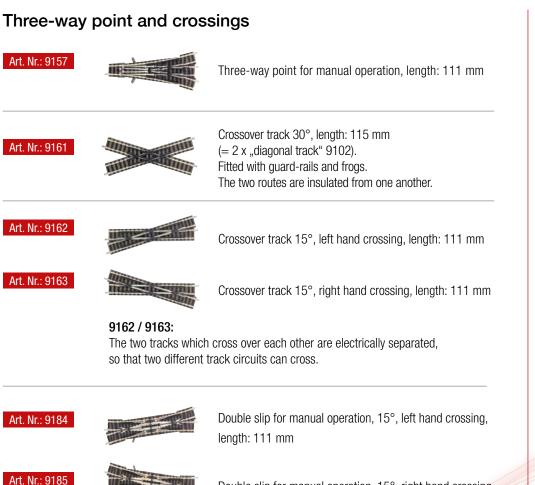
As delivered, **all** points are so-called live points, i.e. all track exits conduct electricity and can be run over by any powered vehicle.

If the two wire bridge clips are taken out of the point, then the current only fl ows in the track exit for which the point is set.

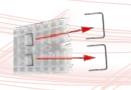
This makes it possible to store trains without power, without any additional wiring. For example, a fast express can pass a stored goods train on a parallel track.



# Fleischmann



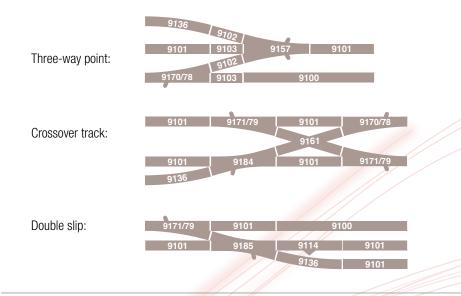
Double slip for manual operation, 15°, right hand crossing, length: 111 mm



#### 9184 / 9185:

As delivered, all track exits deliver power into one circuit. By removing the wire bridge clips the crossing tracks become electrically isolated from each other.

On the "crossover" setting, another track circuit can be traversed. On the "branch-off" setting, the current is separated at the centre of the points.



#### Ponit accessories



Art. Nr.: 640000

**Electromagnetic point motor (universal/gauge HO and N) with end-off switching.\* For all points** Prepared to accept the clip-in illuminated point lantern

944001.

This point motor can be either plugged onto the railway layout board or underneath the railway layout board. For this purpose, a slot is cut into the railway layout where the point motor comes to rest.

\* The universal point motor 640000 replaces the items 942101 and 942201.

#### All points are adaptable with electric point motors.



Illuminated point lantern signal for N tracks with ballast bed. Clip onto the point motor 640000. Connecting pieces to the point motor are included.



#### Art. Nr.: 9152

Electrically operated turntable with individual electrically switchable track exits, with turntable switch 6910. Length of the turning bridge: 183 mm.

The turntable is prototypically mounted in a recess and fitted with accurate details. As delivered, there are 6 exit tracks and 4 over-run ends.

The exit tracks can be unclipped and repositioned as desired, or extended using the turntable extension set 9153 right up to the complete 48 exits.

#### Note:

Control your turntable easily – with TURN-CONTROL, the electronic turntable controll (item no. 6915).



#### Art. Nr.: 9153

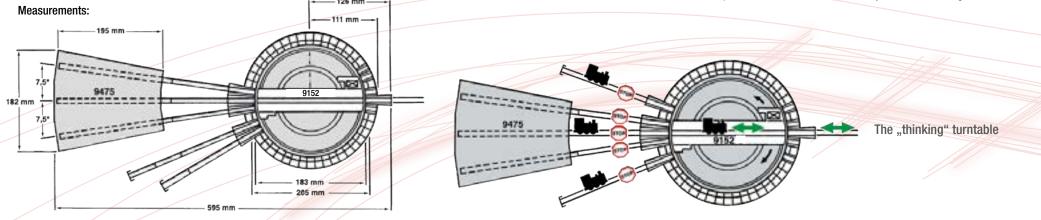


Extension set for turntable 9152 Containing 3 exit tracks and 3 over-run ends.

#### The "thinking" turntable:

Using the switch 6910, will determine the rotation direction in order to access the desired exit. The power feed is activated within the turning bridge. The power to the track exit with which the turntable is lined up, either left or right, can be fed with power using the switch 6910. All other track exits remain isolated (even those opposite each other).

A maximum of 48 track exits can be controlled and electrically operated without the need for any additional wiring.







#### Art. Nr.: 6915

#### **Advantages**

- An LCD display gives a visual indication of the setting of the turntable bridge, the location of the track exits and shows the active track exit, together with additional functions.
- Symbols of the active functions give it a simple, user-friendly operation. Each track exit can be individually controlled.

### **TURN-CONTROL**

Turntable Controller with track pre-selection

For analogue and digital operation

For use in conjunction with the FLEISCHMANN turntable 9152. Suitable for operation with 2-rail DC operation and with the digital systems – DCC and FMZ.

To put into operation, no changes or alterations to the turntable are necessary.

- By pressing a button, a comfortable turning of a locomotive is possible.
- Because the polarity controlles is catered for by the switch, when rotating through 360°, the turntable is protected against short circuit.



Turntable switch



To operate the electric turntable 9152 with electrically switchable track exits Ø 63 mm



#### Locomotive roundhouse (kit).

Suitable for use with turntable 9152. 3 locomotive stalls set at 7.5° track exits, with 8 operating doors. Outstanding plastic detailing with several individual pieces for individual decoration are included. The doors work independently of each other and are automatically closed and opened by entering and exiting locomotives.

Several roundhouse kits can be assembled alongside each other.



On the rear of the shed, one set of doors can be opened for running through.



# <u>Fleischmann</u>

# TRACK ACCESSORIES

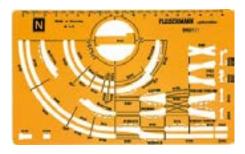


Art. Nr.: 9499

**Ungated level crossin** With warning crosses and re-railing section. Length 55.5 mm. (1/2 length of the basic track)

#### Art. Nr.: 995101

**Track Stencil for N gauge** Suitable for N tracks with ballast bed. The track stencil is handy for designing layouts. Scale 1:5.









# Fleischmann



FLEISCHMANN N-gauge track system without ballast bed

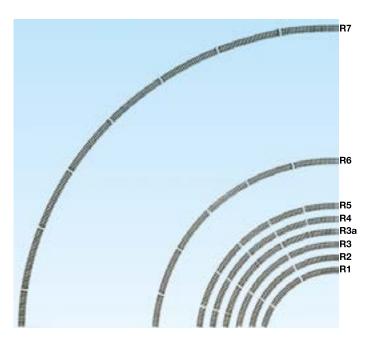
The basis of every model railway system is the rails. For construction and dismantling purposes, FLEISCHMANN offers a comprehensive range of N-gauge tracks which leave none of your model railway wishes unfulfilled. With tracks in eight different radii, the standard points, crossing points, the space-saving three-way points and the slimline model points and crossings, your imagination will know no bounds. In addition, the flexible tracks allow you to create an individual model system design. For optimised power transmission, the track profiles are designed in nickel-silver. The sleepers and rails on this track system are also very finely detailed.

# TRACKS WITHOUT BALLAST BED

Select between two flexible track designs: The extra-flexible track (22200) permits you to create almost any curve. It is particularly suitable for constructing curved line sections or transitional curves. The slightly more rigid flexible track (22201) is perfect when building long, straight sections. Both tracks feature a length of 730 mm, which is approximately seven times the length of the standard straight sections 22203, and can be equipped with the necessary rail connectors 22213 and the sleeper end pieces 22215.

Points are available with three different branch radii and angles, and two different crossings. The electromagneticallyoperated points are activated via drives switched off at the end of travel. This prevents the coils burning through in case the switching current were to continue supplying the drive.

All points have rolled rail profiles made from nickel-silver which are milled in the areas where they are contacted by the point tongues. The point tongues are also milled, and thus permit smooth running. To improve the power supply in the core area, all points (except for crossing 22244 and 22245) are equipped with additional contact plates which can be electrically connected with the neighbouring rail profiles.



Convince yourself of the optimal price-performance ratio of this N-gauge track system, and enjoy the individual design possibilities offered for your model railway system!

#### Flexible tracks

You can choose which of two tracks to use:

the **extra flexible track (22200)** can be curved as desired. It is especially suitable for gentle, winding curves.

However, for making up long straight stretches, the rathermore rigid flexible track (22201) would be more suitable.

Both tracks have a length of 730 mm, approximately 7x length of the standard straight track 22203. You need rail joiners 22213 for both fl exible tracks.

#### Art. Nr.: 22200

Art. Nr.: 22201

Flexible track, length: 730 mm, especially flexible. 12 pc. per pack.

Flexible track, length: 730 mm, less flexible, more rigid. 12 pc. per pack.



#### Straight tracks



### 

Length: 312.6 mm =  $3 \times 22203$  (standard track). 12 pc./pack.

Art. Nr.: 22203

Length 104.2 mm (standard length). 12 pc./pack.



Length: 54.2 mm. 12 pc./pack.



Length: 50 mm. 12 pc./pack.

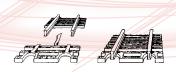
Art. Nr.: 22206

Length: 33.6 mm. 12 pc./pack.

Art. Nr.: 22207

Length: 17.2 mm. 12 pc./pack.

Art. Nr.: 22215



#### **Sleeper end piece for flexible track.** To enhance the appearance of flexible track ends which have been cut to size, ensuring a correct sleeper spacing. 24 pc./pack.

#### **Function tracks**



**Re-railer track.** Length 104.2 mm (standard length). Automatic re-railer for vehicles running over the centre section. 12 pc./pack.

## Art. Nr.: 22212

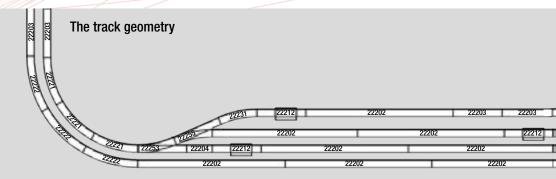
Electromagnetic uncoupler track. Length 104.2 mm (standard length).

The built-in uncoupling part for the standard coupling can be replaced with the attached uncoupling part for short coupling operations.

Art. Nr.: 22220

### 

Feeder track with radio suppressor unit. Length 104.2 mm (standard length). Not suitable for use in digital operation.





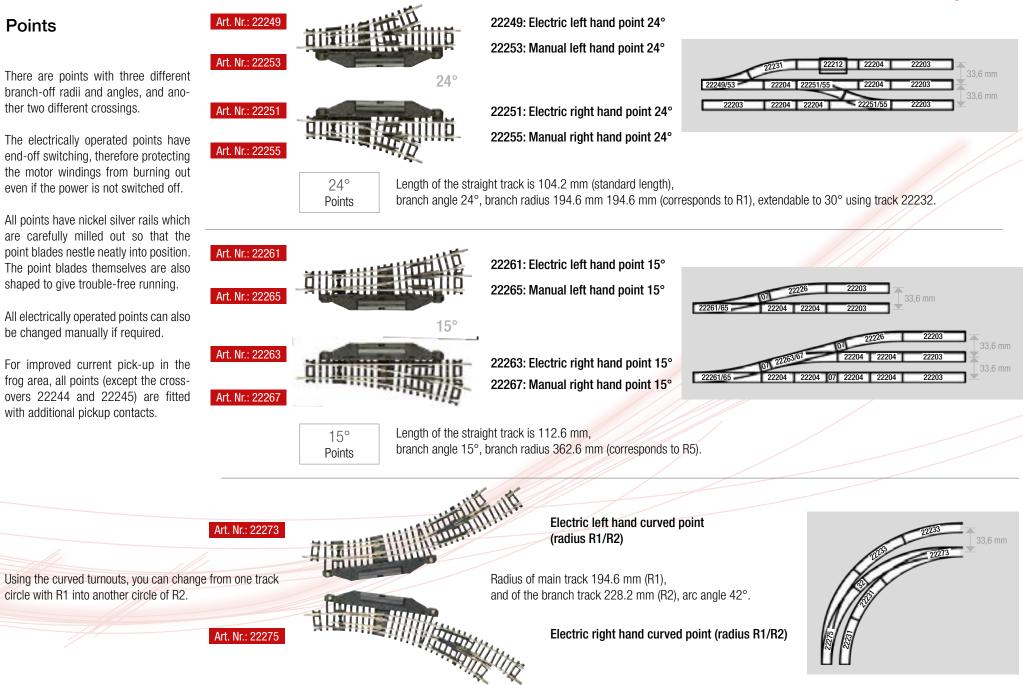
### TRACKS WITHOUT BALLAST BED

The track radii.

#### Curved tracks

Curved trac	cks		on of all the vario			R7
Art. Nr.: 22221 Art. Nr.: 22231	<u> </u>	<ul> <li>R1, 30°. Radius 194.6 mm</li> <li>12 pieces are needed to form</li> <li>a full circle. 12 pc./pack.</li> <li>R1, 24°. Radius 194.6 mm</li> </ul>	the "standard inc <b>Running longer</b>	coaches or larger thus only recom-		
Art. Nr.: 22232	<u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	12 pc./pack. <b>R1, 6°.</b> Radius 194.6 mm 12 pc./pack.	R1 R2 R3 R3a R4	228.2 mm 261.8 mm 295.4 mm	/	R5 R4 R3 R3 R2
Art. Nr.: 22222	<u> </u>	<b>R2, 30°.</b> Radius 228.2 mm 12 pieces are needed to form a full circle. 12 pc./pack.	R5 R6 R7	480 mm	1	R
Art. Nr.: 22233 Art. Nr.: 22234		<b>R2, 24°.</b> Radius 228.2 mm 12 pc./pack. <b>R2, 6°.</b> Radius 228.2 mm 12 pc./pack.	Art. Nr.: 22225	R4	- <b>R</b> 1	1 <b>4, 15°.</b> Radius 329 mm 2 pc./pack.
Art. Nr.: 22223	<b></b>	<b>R3, 30°.</b> Radius 261.8 mm 12 pieces are needed to form a full circle. 12 pc./pack.	Art. Nr.: 22226	<u> </u>		<b>15, 15°.</b> Radius 362.6 mm 2 pc./pack.
Art. Nr.: 22224	<u>貢前前前前前</u> R3a	<b>R3a, 30°.</b> Radius 295.4 mm 12 pieces are needed to form a full circle. 12 pc./pack.	Art. Nr.: 22227	道111111111111111111111111111111111111		<b>6, 15°.</b> Radius 480 mm 2 pc./pack.
Art. Nr.: 22235		<b>R3a, 15°.</b> Radius 295.4 mm 12 pc./pack.	Art. Nr.: 22228	Anisotropy       R7         Mainly used as the opposite curve for points 223		<b>7, 12°.</b> Radius 765 mm 2 pc./pack.





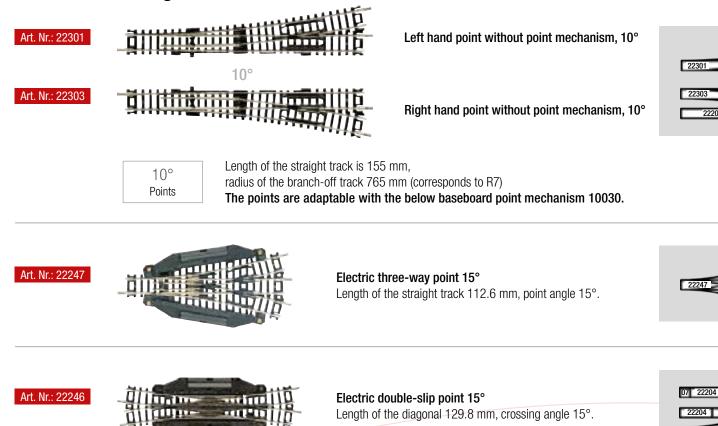


Art. Nr.: 22245

Art. Nr.: 22244

### TRACKS WITHOUT BALLAST BED

#### Points and crossings



#### Crossing 15°

Length of the diagonal 112.6 mm, crossing angle 15°. The crossing tracks are isolated from each other so that two independent power circuits can cross each other. 4 pc./pack.

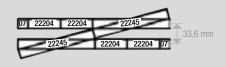
#### Crossing 30°

Length of the diagonal 104.2 mm, crossing angle 30°. The crossing tracks are isolated from each other so that two independent power circuits can cross each other. 4 pc./pack.













### ACCESSORIES FOR TRACKS WITHOUT BALLAST BED



Art. Nr.: 22218 Electric point mechanism for left hand points Suitable for N gauge points without ballast bed. Double spool operation with end-off switching. For fitting to manual points. Art. Nr.: 22219 Electric point mechanism for right hand points Suitable for N gauge points without ballast bed. Double spool operation with end-off switching. For fitting to manual points. Art. Nr.: 10030 Rail joiners, for tracks without ballast bed. Art. Nr.: 22213 50 pc./pack. Below baseboard point mechanism Low energy consumption, shut off mechanism, 4 single-pole double-throw switches. - Can also be installed horizontally. Insulating rail joiners, for tracks without ballast bed. Art. Nr.: 22214 Dimensions approx. 60 x 27 x 45 mm. 24 pc./pack. Transition rail joiner to Arnold® track system Art. Nr.: 22240 Art. Nr.: 22217 12 pc./pack. Connecting cable, with no interference (Arnold is a registered trademark of HORNBY ITALIA S.r.l.) suppression. Track nails, Art. Nr.: 22216 Track bumper (construction kit) Art. Nr.: 10000 for fastening tracks without ballast bed, Can be placed on any track siding. contents approx. 400 pc./bag.



### ACCESSORIES FOR LAYOUTS



#### Art. Nr.: 9400

Track feed clips, 2x 1-pole (For N tracks with ballast bed)

#### Art. Nr.: 9401

**Connecting wire with flat contact springs, 1-pole** For train control operation of semaphore signals.

#### Art. Nr.: 9425

#### Switch contact

The switching impulse (max. 800 mA) is activated using the magnets 942601 or 942701 fitted to the train. (For N tracks with ballast bed)



Switching magnet, angular

To activate the switch contact 9425.

To fix onto the underside of vehicles.

Surface area 7 x 7 mm, height 5 mm.

Art. Nr.: 942601

#### Art. Nr.: 942701

**Switching magnet, circular, flat** To activate the switch contact 9425. To fix onto the underside of vehicles.

Diameter 5 mm, height 3 mm.



#### Art. Nr.: 9404

#### Metal rail joiner

1-pole. To connect a rail track assembly electrically and mechanically. (For N tracks with ballast bed) - 20 pc./pack.



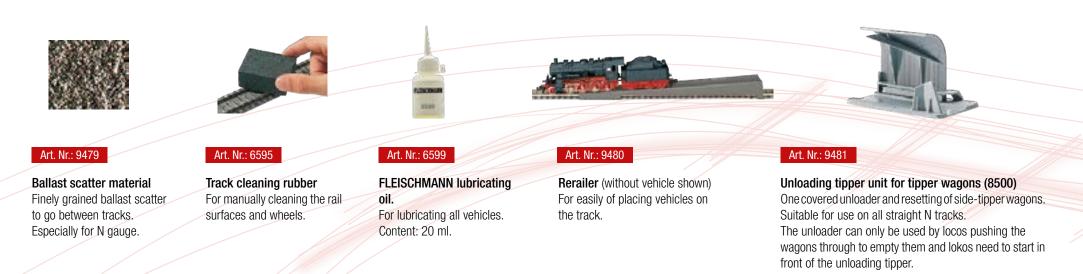
#### **Isolating rail joiners** 1-pole. For electrical isolation of track sections or joining tracks together. (For N tracks with ballast bed) - 12 pc./pack.

#### Art. Nr.: 6410

#### **Wood-screws** for fastening tracks, racks, signals, relays and signal box parts. (Gauge neutral) Diameter: 1.4 mm, Length: 8 mm, Content: 144 pieces

#### Art. Nr.: 9409

Track fixing nails In a plastic container. Contents: approx. 500 pieces Length: 7 mm



### LIGHTINGS



#### Interior lighting units

	-	
. 4		

#### Art. Nr.: 944501

**LED interior lighting unit** LED interior lighting unit to replace the items 9445, 9457and 9458.



#### Art. Nr.: 944701

**LED interior lighting unit** to replace the item 9447.



#### Art. Nr.: 945301

LED interior lighting unit LED interior lighting unit to replace the items 9453, 9460, 9464, 9468.



**LED interior lighting unit** LED interior lighting unit to replace the item 9465.

- 8-		1.14	+.	+ 1
11	+二+	13	:+	11

#### Art. Nr.: 946701

LED interior lighting unit LED interior lighting unit to replace the item 9467.



#### Art. Nr.: 946901

**LED interior lighting unit** LED interior lighting unit to replace item 20021.

#### Advantages of the LED interior lighting units:

Thanks to buffer capacitors, flicker-free lighting can be guaranteed even during short power interruptions.

**For analogue and digital operation** and direct current. The printed circuit boards can be shortened to approx. 75 mm. Please observe the operating instructions.



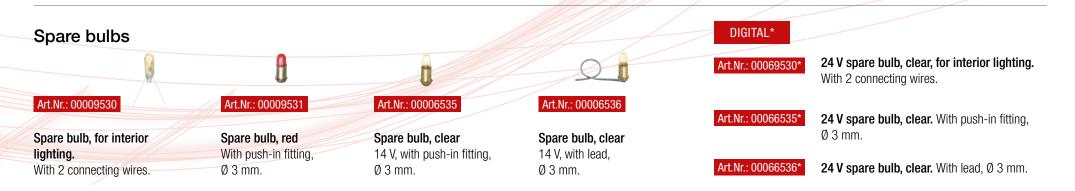
#### Art. Nr.: 9456

Interior lighting unit for 2-axled passenger coaches with close coupling mechanism. Current consumption approx. 50 mA. Exchange bulb: 00009530



#### Art. Nr.: 9461

Interior lighting unit for items 8070-8074 and 8770-8773 (& variants). Current consumption approx. 50 mA. Exchange bulb: 00009530



\*Advice: For simultaneous operation of both digital- and traditional D. C. vehicles, the bulbs of the D. C. vehicles should be replaced by the corresponding higher voltage bulbs for digital operation.

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### Heischmann

### COUPLINGS

### The PROFI coupling from FLEISCHMANN – the closest connection in N



#### Advantages of the PROFI-coupling:

- Soft and automatic coupling
- Solid coupling when pulling and pushing trains
- Automatic decoupling on the FLEISCHMANN decoupling tracks
- Easy removal of individual wagons from train composition is possible
- Pre-uncoupling for shunting manoeuvres true to the original



With FLEISCHMANN you can couple up lots of trains just realistically closely, because most of the wagons are fitted with the so-called slot guide mechanism. The slot-guide mechanism together with the standard N coupling as fitted



makes a noticeable difference in closing the gap between wagons. If the PROFI-couplings are fitted as well, then a real close-coupling can be achieved.



Art. Nr.: 9520

# **Standard coupling** with spiral centre spring and cover plate.



Art. Nr.: 9521

**Standard coupling** with flat centre spring and cover plate (with **long** fixing lug).



Art. Nr.: 9522

**Standard coupling** with flat centre spring and cover plate (with **short** fixing lug).



Art. Nr.: 9525

**Standard clip-in coupling** Simply pushes into the coupling socket.



Art. Nr.: 9523

**Standard coupling** for article 7368.



#### Art. Nr.: 9540

#### PROFI coupling

with spiral centre spring and cover plate. To convert vehicles which are fitted with the standard coupling 9520.



Art. Nr.: 9541

**PROFI coupling** with flat centre spring and cover plate (with **long** fixing lug). To convert vehicles which are fitted with the standard coupling 9521.

#### Art. Nr.: 9542

**PROFI coupling** with flat centre spring and cover plate (with **short** fixing lug). To convert vehicles which are fitted with the standard coupling 9522. Art. Nr.: 9545

Art. Nr.: 389545

50 x 9545

Bumper pack

PROFI clip-in coupling Close-coupling to convert FLEISCHMANN vehicles which have standard coupling 9525 fitted.

### Heischmann

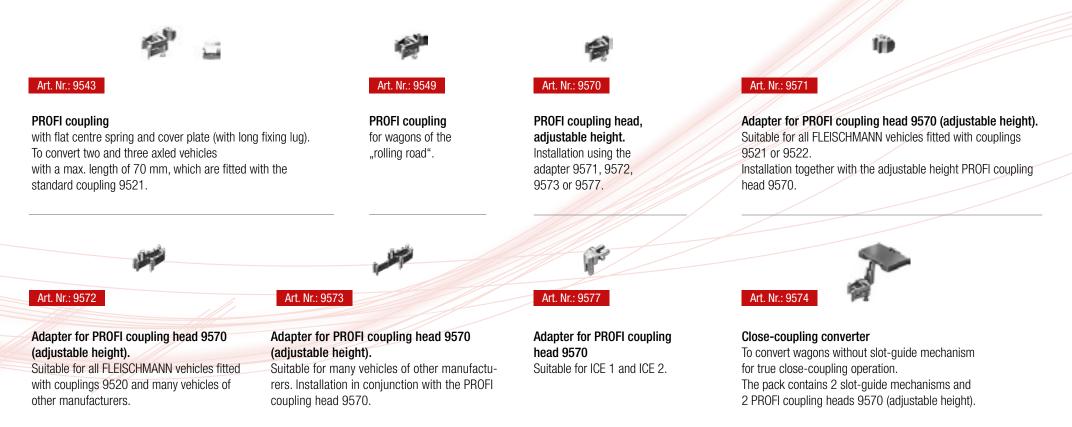


With PROFI coupling 9543



Even all N vehicles without slot-guide mechanism couple up noticably closer with PROFI coupling if the standard couplings are replaced by the PROFI couplings.

And for wagons having a length over buffers of up to 70 mm, then the PROFI-coupling 9543 is really just as good as a close-coupling.





### ACCESSORIES

#### Container



#### Art. Nr.: 910120

**3 piece set: 20' tank containers** The set consists of three 20' tank containers that can be used on your model railway layout for combined traffic operations.

# || |----- |' || |----- |'



### 3 piece set: 20' containers

The set consists of three 20' tank containers that can be used on your model railway layout for combined traffic operations.

#### Wheel sets



Art. Nr.: 20023

**Disc wheel set, isolated on one side** Axle length: 13.65 mm, diameter 6 mm. Height of wheel flange: 0.9 mm. 2 pc./pack.



We also supply spare parts! On <u>www.fl eischmann.de</u> you can order the right spare parts for your models. The spare parts shop and spare parts fi nder is open 24 hours a day and orders are sent straight to your home.

#### Traction tyre sets



#### Art. Nr.: 948001

Suitable for diesel railcar units class V 60 (DR-Ost) 10 pc./pack.

#### Art. Nr.: 948002

Suitable for diesel railcar units class VT 12/612 (DB) 10 pc./pack.

#### Art. Nr.: 948003

Suitable for diesel railcar units class VT 11 / 601 (DB) 10 pc./pack.

#### Art. Nr.: 948005

Outer diameter 6.95 mm, width 1.2 mm. 10 pc./pack.

WWWWWWWW

Art. Nr.: 6518

Art. Nr.: 9517

### Art. Nr.: 948006

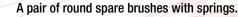
Outer diameter 8.8 mm, width 1.3 mm. 10 pc./pack.

#### Art. Nr.: 948007

Outer diameter 4.9 mm, width 1.2 mm. 10 pc./pack.

#### Art. Nr.: 948008

Suitable for diesel railcar units class VT 642 ("Desiro"). 10 pc./pack.



A pair of round spare brushes with springs.



Subscribe to the FLEISCHMANN-Newsletter on www.fleischmann.de and you are up to date.

Only here you will find everything about innovations, exclusive models and special series.

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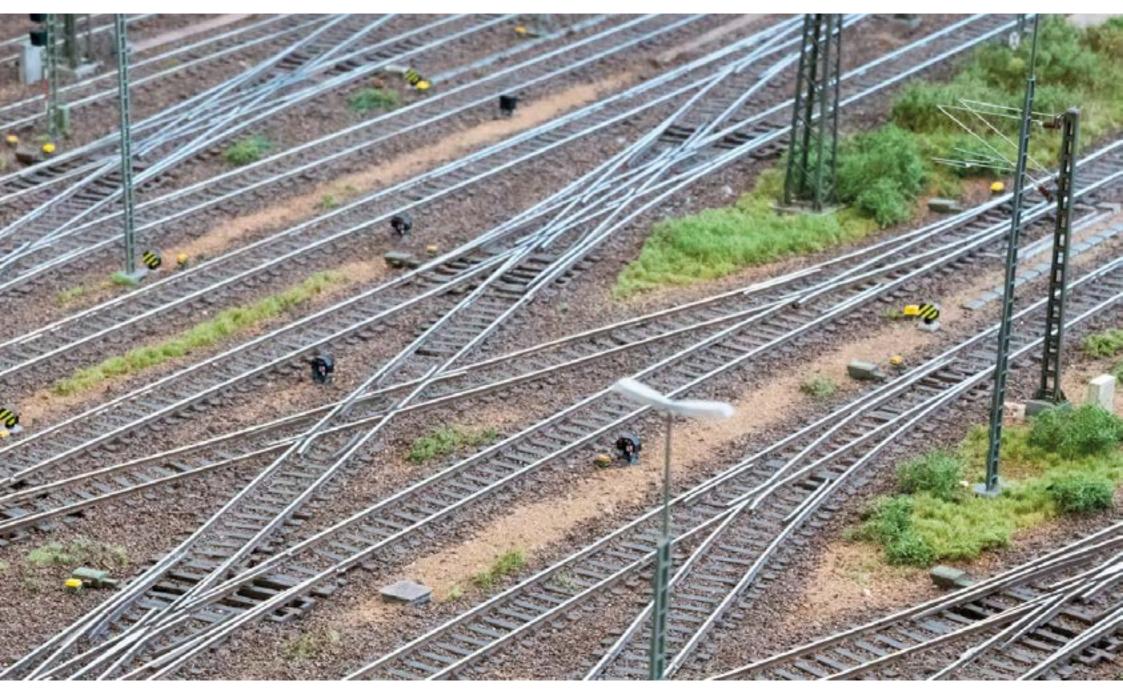






# Fleischmann TRACK SYSTEM

### Fleischmann





### **PROFI TRACK SYSTEM**



**Uncoupler track for manual operation** Length 100 mm. 5 pc./pack.

Art. Nr.: 6412



Flexible rack track for PROFI track Length 200 mm. 10 pc./pack.

Flexible - to install in straight or curved tracks. Can be used from the smallest radius (R1).

Art. Nr.: 6444

Electrical plug-in motor for manually operated uncoupler track 6114





#### **Buffer stop, with end of track indicator.** To clip onto H0 tracks at the end of sidings.

Also usable on curves. 10 pc./pack.



### Fleischmann





#### **Illuminated point latern** to optionally retrofit points. Suitable for the standard points 6170 / 6171, the curved points 6174 / 6175 and the three-way points 6157. Illumination with maintenance-free LEDs. Power supply independent from point. Measurement of the point lantern socket: 19 x 10 mm.







Track stencil for FLEISCHMANN H0 PROFI-track.

An absolutely essential aid for individual layout planning. Transparent, yellow plastic, scale 1:10.



**Ungated level crossing for PROFI track** With rerailer and two cross bucks. Track length: 100 mm.



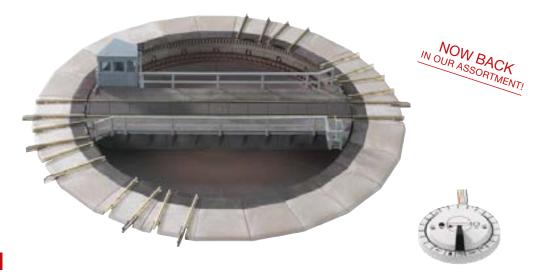
Yleischmann







### Fleischmann





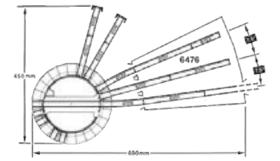
**Extension set for the smaller turntable 6154** The set contains 3 exit tracks and 3 over-run ends.

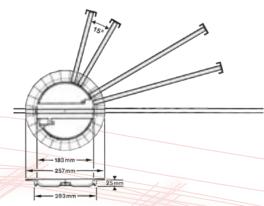
#### Art. Nr.: 6154

Model turntable with electric drive and electric, individually-switchable track outputs, with turntable switch 6910. Length of turntable bridge 183 mm. Suitable for the H0-PROFI track and other H0-nickel-silver track systems. Rail profile height: 2.5 mm.

The turntable is a prototypical trench construction and features all the essential details in this realistic representation. The basic equipment for the turntable includes 6 exit tracks and 4 blank connectors. The exit tracks can be attached and reattached at an angle of 15° as required, and can be extended using turntable supplement set 6155 to a total of 24 track connections.

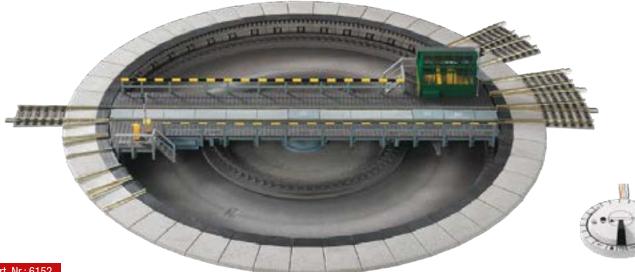
Fleischmann has developed a H0 model based on a 16-metre turntable prototype. This turntable has the advantage that it does not require too much space, and therefore also fits onto small systems. In spite of this, locomotives with an axle spacing of up to 170 mm can be rotated, even though the length of the locomotives is in part substantially larger due to the buffers. **The "intelligent" turntable:** The model turntable feeds the driving current into the system via the turntable bridge. When you select the turntable bridge side which should conduct the current using turntable switch 6910, then the turntable "thinks". It only feeds the track with current which is connected with the selected side of the turntable bridge. Using this "intelligent" turntable, a locomotive can be de-energised and parked on a track, and at the same time a locomotive can be driven on the opposite track, which is connected to the turntable bridge.







### **TURNTABLES**



#### Art. Nr.: 6152

Electrically operated turntable, with electrically switchable track exits using the turntable control switch 6910. Length of the turning bridge: 310 mm.

The turntable is prototypically mounted in a recess and fitted with accurate details.

As delivered, there are 6 exit tracks and 4 over-run ends. The exit tracks can be unclipped and repositioned at an angle of 7.5° as desired, or extended using the turntable extension set 6153 right up to the complete 48 exits.

Can be extended to a total of 48 track connections using the turntable supplement set 6153. Rail profile height: 2.5 mm. Suitable for turntable engine shed 6476.

### Art. Nr.: 6153

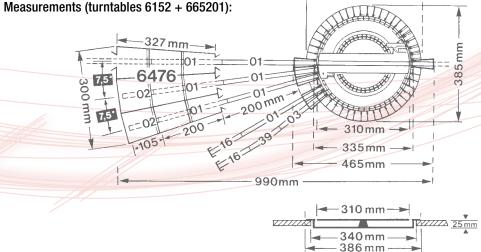


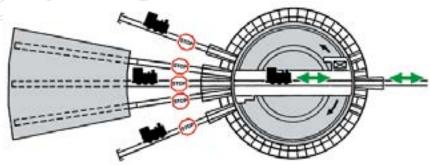
Fleisc<u>hman</u>n

Extension set for the PROFI track turntable 6152 for 2-rail operation with nickel silver tracks. The set contains 3 exit tracks and 3 over-run ends.

#### The "thinking" turntable (6152)

The "thinking" turntable: using the switch 6910, will determine the rotation direction in order to access the desired exit. The power feed is activated within the turning bridge. The power to the track exit with which the turntable is lined up, either left or right, can be fed with power using the switch 6910. All other track exits remain isolated (even those opposite each other). A maximum of 48 track exits can be controlled and electrically operated without the need for any additional wiring.

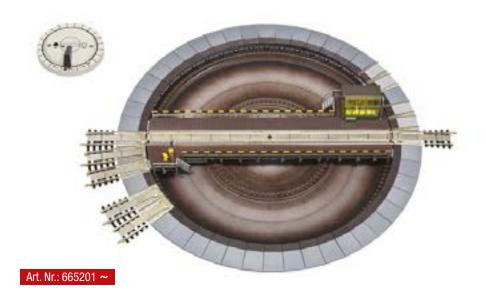




The "thinking" turntable

#### Manual (1997)

### TURNTABLE/TURN-CONTROL



### Electrically operated turntable for 3-rail AC system, with turntable control switch 6909.

The turntable is prototypically mounted in a recess and fitted with accurate details. As delivered, there are 6 exit tracks and 4 over-run ends.

The exit tracks can be unclipped and repositioned at an angle of  $7,5^{\circ}$  as desired, or extended using the turntable extension set 665301 right up to the complete 48 exits.

Fits to locomotive roundhouse 6476.



#### Extension set for the AC turntable 665201

For neutral conductor AC driving operation with nickel-silver tracks. Content: exit tracks and 3 over-run ends.

**TIP:** You can find many useful guidelines and technical information on our website www.fleischmann.de > Service > Downloads > Further Downloads > Technology Downloads



### TURN-CONTROL

Turntable Controller with track pre-selection For analogue and digital operation

TURN-CONTROL is suitable for analogue and digital control of the turntables from the FLEISCHMANN range.

TURN-CONTROL is suitable for operation with 2-rail DC operation, 3-rail AC operation, and will also operate with all digital systems - DCC or FMZ.

Using TURN-CONTROL, no changes or alterations to the turntable are necessary.

#### Advantages:

- An LCD display gives a visual indication of the setting of the turntable bridge, the location of the track exits installed and the active track exit, together with additional functions.
- Symbols of the active functions give it a simple, user-friendly operation.
   Each track exit can be individually exactly controlled.
- By pressing a button, a comfortable turning of a locomotive is possible.
- Because the polarity change is controlled by the switch, when rotating through 360°, the turntable is protected against short circuit.



#### Turntable switch

To operate the electric turntables 6052 C, 6152 C, 6154 C with individually switchable track exits. Ø 63 mm

Art. Nr.: 6910





#### Art. Nr.: 6476

#### Locomotive Roundhouse (kit)

Suitable for use with the turntables 6152 and 665201. Locomotive stalls set at 7.5° angles with 8 opening doors. The doors are operated by locos leaving and entering the shed. Several roundhouse kits can be set up alongside each other to make up a large shed.

One set of doors is set at the rear of the shed to run straight through if desired.



**Tip for modelmakers!:** Light duct accessory No. 6459 will fit into the loco shed 6476.





### **ACCESSORIES FOR LAYOUTS**

#### Art. Nr.: 6434

Art. Nr.: 6430

#### "Click" metal rail joiners

To electrically and mechanically connect a rail track assembly. Can not be used for 6106/6109. 20 pc./pack.



#### Metal rail joiners

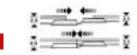
Transitional rail joints from assortment 6000 to assortment 6100. To connect the flexible tracks 6106/6109. 20 pc./pack.



Art. Nr.: 6432

#### Isolating rail joiners

For electrical rail cut-off. Can be used on any layout section. The mechanical connection is maintained. 12 pc./pack.



#### Transitional rail joints

Art. Nr.: 6437

Ideal for connecting FLEISCHMANN PROFI tracks to ROCO LINE tracks.

To connect Scale H0 tracks of 2.5 mm rail profile height with tracks of 2.1 mm rail profile height.



#### **Track Feed Clips ( 2-pole)** Track feed clips (2 poles) can only be connected to the rail connectors on the corresponding rail joint. Saves a siding.



#### Track Feed Clip (1-pole) Track feed clips can only be connected to the

rail connectors on the corresponding rail joint such as infront or behind the electrical cut-off point or with signal circuits.

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#### Switch contact rail, 1-pole

To trigger off switching impulses for turnouts, signals etc. with driving locomotives. Can be used on any section of the railway layout.



#### Art. Nr.: 9401

**Connecting wire with flat contact springs** For train control operation of semaphore signals.



#### **Switching magnet, angular** To activate the switch contacts 6435. To fix onto the underside of vehicles. Surface area: 7 x 7 mm, height 5 mm.



Switch magnet, circular To activate the switch contacts 6435. To fix onto the underside of vehicles. Diametre: 5 mm, height 3 mm.

0





#### Art. Nr.: 6410

**Wood screws** To fasten tracks, rackrails, signals, relays and signal box parts. Content: 144 pieces, Diameter: 1.4 mm Length: 8 mm

#### Art. Nr.: 9409

Track fixing nails In a plastic container. Contents: approx. 500 pieces Length: 7 mm



Ballast scatter material for PROFI tracks To ballast the track beds. Content: 150 g



**Track ballast** Finely grained ballast scatter to go between tracks. Content: 150 g

Art. Nr.: 9479



Art. Nr.: 6595

Art. Nr.: 6480

**Track cleaning rubber** For manually cleaning the rail surfaces and wheels.



#### Art. Nr.: 6599

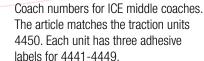
FLEISCHMANN lubricating oil For lubricating all vehicles. Content: 20 ml

#### Art. Nr.: 6554

DB AG logos for ICE vehicles 12 adhesive labels.

#### Art. Nr.: 6555

Rerailer Rerailer for locos and wagons (without vehicle shown).













### **INTERIOR LIGHTING**





Art. Nr.: 6445

Interior lighting unit for 6-axled passenger coaches. Spare bulb: 00009530



Art. Nr.: 6452

Interior lighting unit for express coaches. Spare bulb: 00006535



Art. Nr.: 6454

Interior lighting unit for passenger coaches of length 282 mm. Spare bulb: 00009530

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Art. Nr.: 6455

Interior lighting unit for the local control cab coach "modus". Spare bulb: 00009530

#### Art. Nr.: 6458

Interior lighting unit for passenger coaches with overall length 264 mm. Spare bulb: 00009530

#### Art. Nr.: 6469

Interior lighting unit for passenger coaches with overall length approx. 130 mm. Spare bulb: 00006535

#### Art. Nr.: 6459

Light dispenser, assembly set Spare bulb: 00009530 Tip for modelmakers: No. 6459 fits also into the loco shed 6476.



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### SPARE BULBS

#### Spare bulbs



#### Art. Nr.: 00006530

Spare bulb, clear 14 V, E 5, with screwed socket.



#### Art. Nr.: 00006532

Spare bulb, red 14 V, with push-in fitting, Ø 3 mm.



#### Art. Nr.: 00006533

Spare bulb, green 14 V, with push-in fitting, Ø 3 mm.



Spare bulb, yellow 14 V, with push-in fitting, Ø 3 mm.



#### Art. Nr.: 00006535

Spare bulb, clear 14 V, with push-in fitting, Ø 3 mm.



#### Art. Nr.: 00009531

A

150014-1

Spare bulb, red With push-in fitting, Ø 3 mm.

#### Art. Nr.: 00006536

Spare bulb, clear 14 V, with lead, Ø 3 mm.

### Art. Nr.: 00006538

Spare bulb, clear 8 V, with push-in fitting, Ø 3 mm.

Art.Nr.: 00066530\*

Spare bulb, clear

24 V, with screwed

socket, Ø 5 mm.

#### Art. Nr.: 00006539

Spare bulb, red 8 V, with push-in fitting, Ø 3 mm.

Art.Nr.: 00066531\*

Spare bulb, clear

Ø 5 mm.

24 V, with push-in fitting,

#### Art. Nr.: 00009530

Art.Nr.: 00066532\*

Spare bulb, red

Ø 3 mm.

24 V, with push-in fitting,

Spare bulb, for interior lighting With 2 connecting wires.

#### Art.Nr.: 00066533\*

Spare bulb, green 24 V, with push-in fitting, Ø 3 mm.

#### Art.Nr.: 00069530\*

Spare bulb, for interior lighting With 2 connecting wires.

#### DIGITAL\*

Art.Nr.: 00066534\* Spare bulb, yellow 24 V, with push-in fitting, Ø 3 mm.



Art.Nr.: 00066536\* Spare bulb, clear 24 V, with lead, Ø 3 mm.

#### \*Advice:

For simultaneous operation of both digital and traditional D.C. vehicles, the bulbs of the D.C. vehicles should be replaced by the corresponding higher voltage bulbs for digital operation.













### COUPLINGS

#### Die FLEISCHMANN-PROFI coupling



#### Advantages of the PROFI-coupling:

- Tight coupling (close coupling) true to the original
- Soft and automatic coupling
- Solid coupling when pulling and pushing trains
- Automatic decoupling on the FILEISCHMANN decoupling tracks
- Easy removal of individual wagons from train composition is possible
- Pre-uncoupling for shunting manoeuvres true to the original

### The perfect pre-uncoupling for great shunting maneuvers:

Pre-uncoupling means that you cannot only uncouple a wagon on a decoupling track and leave it standing there, but first pre-uncouple and then push the wagon to another point of your model railway layout to station it without the couplings connecting again.

#### **Clip-in couplings**



Art. Nr.: 6515

**Plug-in PROFI coupling** For vehicles with NEM 362 coupling socket.



Art. Nr.: 386515

Plug-in PROFI coupling (bulk pack) Content: 50 pc. 6515 For NEM 362 coupling socket.



Art. Nr.: 6514

**Plug-in PROFI coupling** For use on rack and pinion locos and coaches with slotguide mechanism on rack track.



Art. Nr.: 6509

Plug-in PROFI hook coupling For vehicles with NEM 362 coupling socket without slotguide mechanism.



Plug-in PROFI hook coupling

For vehicles with NEM 362

coupling socket, with slot-

Art. Nr.: 6510

quide mechanism.



#### Art. Nr.: 6511

"Swallow tail", plug-in exchange hoop coupling For vehicle with NEM 362 coupling socket.

### **Digital PROFI coupling**



### Retrofit kit digital PROFI coupling (NEM 652) incl. DCC-AC decoder, with feedback function

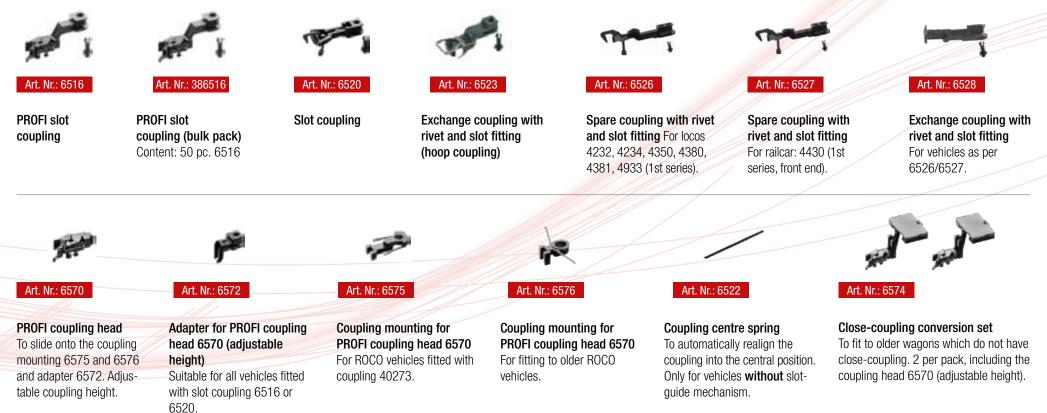
Content: 1 Multiprotocol special decoder for AC and DC versions and 2 couplers. The couplers can only be properly controlled with this decoder. The use of any different decoders can cause damages to the couplers. Automatic driving current recognition Motorola/DCC or analog AC/DC. Automatic driving level recognition 14/28/128 levels.



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#### **Slot couplings**



### Fleisch<u>man</u>n

### ACCESSORIES

#### Exchange wheel sets



#### Art. Nr.: 6560

#### Exchange wheel set for AC operation

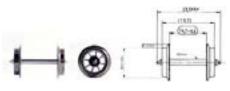
Axle length: 24 mm. Diameter 11 mm. Not isolated. To convert all 2- and 3-axled Fleischmann wagons fitted with disc wheels, as well as all 4-axled wagons with a length of 282 mm for use on 3-rail, centre pick up AC voltage tracks.



#### Art. Nr.: 6561

#### Exchange wheel set for AC operation

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



#### Art. Nr.: 6562

Exchange spoked wheel set for AC operation Axle length: 23,5 mm. Diameter 11 mm. Not isolated. To convert Fleischmann coaches with spoked wheels for use on 3-rail, centre pick up AC voltage tracks.



#### Art. Nr.: 6563

#### Exchange double spoked wheel set for AC operation.

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

More wheel sets from our spare part assortment: www.fleischmann.de >products >exchange wheel sets

#### Traction tyre sets

#### Art. Nr.: 648001

Outer diameter 11.6 mm, width 2 mm. 10 pcs/pack

#### Art. Nr.: 648002

Outer diameter 13.6 mm, width 2 mm. 10 pcs/pack

#### Art. Nr.: 648003

Outer diameter 10.6 mm, width 2 mm. 10 pcs/pack

Art. Nr.: 6518



#### Art. Nr.: 648004

Outer diameter 13.6 mm, width 1.3 mm. 10 pcs/pack

#### Art. Nr.: 648005

Outer diameter 10.6 mm, width 1.3 mm. 10 pcs/pack

#### Art. Nr.: 648006 Outer diameter 9.9 mm, width 1.3 mm.

10 pcs/pack

#### Art. Nr.: 648007

Outer diameter 16.4 mm, width 1.3 mm. 10 pcs/pack

#### Art. Nr.: 648008

Outer diameter 16.4 mm, width 2 mm. 10 pcs/pack

### Art. Nr.: 648009

Outer diameter 8 mm, width 1.3 mm. 10 pcs/pack

#### Art. Nr.: 648010

Outer diameter 11.5 mm, width 1.5 mm. 10 pcs/pack

#### Art. Nr.: 648011

Outer diameter 8 mm, width 1.5 mm. 10 pcs/pack. Suitable for loco class 36 (DC)

#### Art. Nr.: 648012

Outer diameter 9.3 mm, width 1.5 mm. 10 pcs/pack. Suitable for loco class 36 (AC)

A pair of spare brushes and springs.

Art. Nr.: 6519

\*\*\*\*\*\* RAMMAN CON

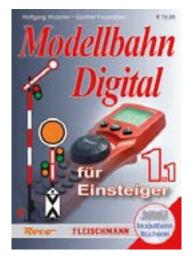
A pair of spare brushes and springs.





### Fleischmann

#### Digital for beginners, Edition 1.1 - German



Art. Nr.: 81385

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 2.1 - German

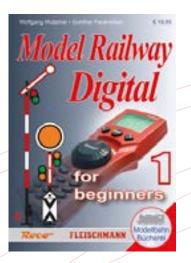
Art. Nr.: 81386

Art. Nr.: 81393



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, a ctivate the wireless Z21 WLANMAUS, use tablet or smartphone for control or how to update your control units etc.

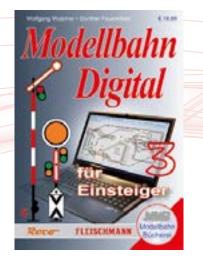
#### Digital for beginners, Part 1 - English



Art. Nr.: 81391

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

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



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.

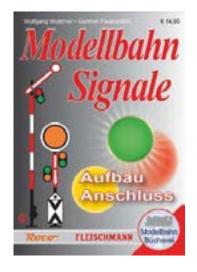
Author/responsible for contents: Wolfgang Wutzmer/Günther Feuereißen

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BOOKS



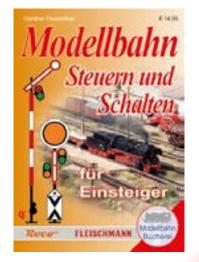
#### Signals - Setup and connection - German



Art. Nr.: 81392

This brochure explains the main electricallypowered 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.

#### Operate and switch for beginners - German



Art. Nr.: 81389

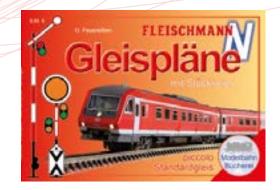
This brochure will help you to operate and connect your model railway layout. Locomotives, trains, switches, signals, gates and all sorts of accessories – everything is kept moving, everything is put into operation by electricity. Step by step and almost playfully you will learn how to face the electrical challenges of your layout and to solve all your problems.

Building and maintenance for beginners - German



Art. Nr.: 81388 Q2/2023

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.



(for ballasted tracks) - German

Track Manual FLEISCHMANN N gauge

Art. Nr.: 81399

The track plan manual explains the geometry of the ballasted tracks of FLEISCHMANN in scale N. Many track layouts and expansion options are shown in details. All featured track layouts are provided with parts lists.

### WHERE DO I FIND WHAT?

### NOVELTIES

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