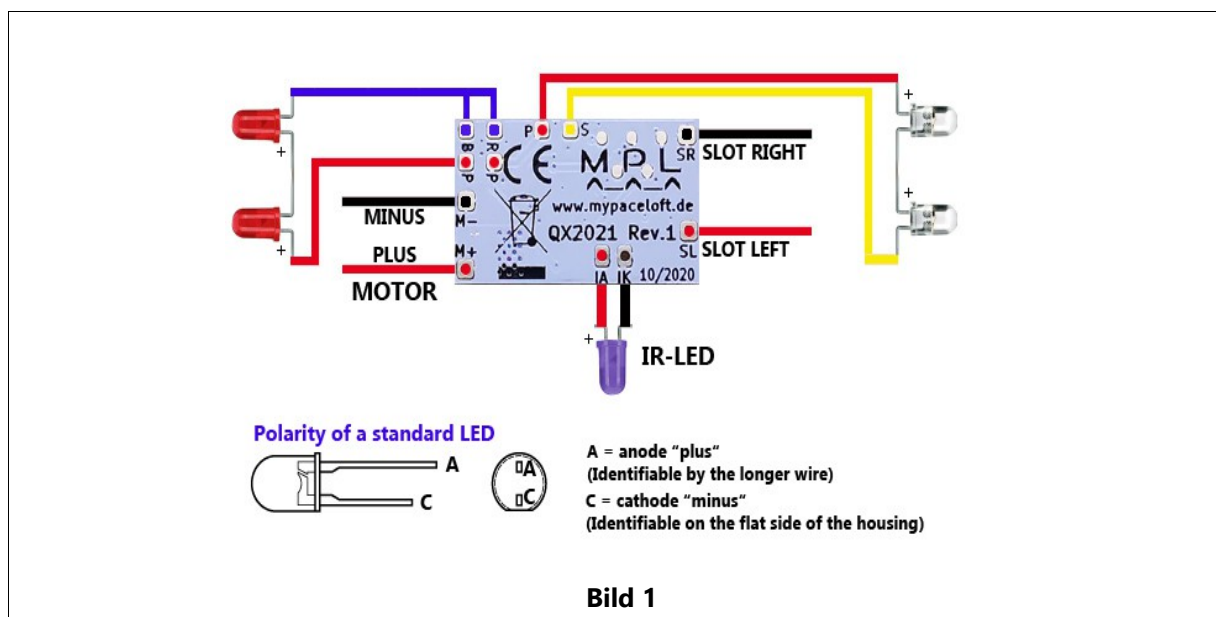




Technical specifications

Minimum operating voltage 12,0 Volt DC
 Maximum operating voltage : 18,5 Volt DC
 Size (L x B x H): 24,5 x 15 x 3 mm

Net weight 1,4 g.
 Underside without components
 Suitable for 18D engines
 From version QX2021 Rev.2 also for 13D
 tune engines.

Connections on the decoder see Figure 1: If you do not want a separate brake/tail light, a bridge must be soldered between solder pads B and R. This is best done if you lead the cable through solder pad B to solder pad R on the back and solder the cable to both solder pads. The LEDs are connected via plus + P and switched via ground.

R = tail light / B = brake light / S = headlight

Delivery status QX2021-K & QX2021-P (combined brake/tail light): If you use vehicles with separate brake and tail lights, the solder bridge between B and R must be separated and another cable attached to solder pad R.

The easiest and safest way is to lead the cables through the holes in the solder pads and solder them on the back.
 The solder pads must not be drilled or drilled. Drilling or drilling the solder pads will cause interference.
 The LEDs do not necessarily have to be connected in series, they can also be connected in parallel.

Installation instructions: To mount the IR diode, drill a hole with a diameter of 3.0 mm in the front area 12.5 mm to the left of the center of the chassis. Solder the cables according to the connection plan (Figure 1). The IR diode can be soldered directly onto the circuit board or positioned with cables at a suitable location in the car. The decoder can be attached to the chassis at a suitable location using hot glue or double-sided adhesive tape (not included). **! The area under the Mosfet (the Mosfet is above the garbage can symbol when viewed from the back) must be kept clear so that it does not overheat. When attaching with double-sided adhesive tape (non-conductive), this area must always be left generously open so that the Mosfet is ventilated, unless a heat-conductive double-sided adhesive tape is used.**

Note: The tank function can only be used when using the CU 30352 from Carrera®.

Recommendation: If there are any problems with the track protocol, we recommend installing a 47 - 100 nanofarad interference suppression capacitor in parallel to the motor connections.

Important: To change settings, place the vehicle on the track in the direction of travel. Every change to the programming is confirmed by flashing lights. Settings made remain saved until reprogramming is carried out. To recode, the vehicle must be without power for at least 3 seconds!

The basic speed and braking effect must be coded before the first drive.

10 speed levels and braking levels can be set on the CU. With other software solutions such as Cockpit-XP or Open Lap, the basic speed and braking can be set in 16 levels each.

Coding on a speed controller: Start the coding by pressing the CODE button on the CU once and complete the process by pressing the lane change button on the speed controller.

Setting the basic speed: Select the desired speed level by pressing the SPEED button on the CU and confirm with the ENTER button on the CU.

Setting the braking effect: Select the desired braking level by pressing the BRAKE button on the CU and confirm with the ENTER button on the CU.

Lights on/off: The vehicle must be stationary on the track for at least 3 seconds. The lights can then be switched on or off by pressing the lane change button.

Coding the Ghostcar™: Start the coding by pressing the CODE button on the CU twice and continue the process by pressing the lane change button on the speed controller. While the lights are flashing, bring the vehicle to the desired speed using the speed controller and complete the process by pressing the lane change button on the speed controller.

General safety instructions: Please read and follow the safety instructions and the manual carefully before you start using the device.

IMPORTANT NOTE: This article is a model building product and due to its design contains points, sharp edges and delicate small parts. Tools such as scissors, knives, pliers and a soldering iron are required for assembly. There is therefore a risk of injury during further processing. **The product is not suitable for children!**

Area of application: This article is intended for installation (e.g. with double-sided adhesive tape) in model cars. The decoder and all small parts included are not toys and should only be used under professional instructions.

Safety precautions: Keep kits, accessories and tools (such as scissors, knives, pliers, soldering irons, etc.) out of the reach of children under 14 years of age.

Children may only work with these products under the supervision of experienced model builders.

Only use the parts included in the kit and the recommended accessories.

Passing on: This product is subject to labeling and may only be passed on with this complete description.

Note: Keep this information safe.

Conformity and regulations: This product complies with the requirements of the following EU directives:
2014/30/EU (EMC Directive)

2011/65/EU (RoHS II – Restriction of Hazardous Substances in Electrical and Electronic Equipment)

Disposal information (WEEE): This product is marked with the symbol of a crossed-out wheeled bin (WEEE):

It must not be disposed of with household waste.

Please take this product to a separate collection point for electrical and electronic equipment in accordance with EU Directive 2012/19/EU (WEEE) to avoid potential environmental damage.

Additional safety note: This product is intended for use in slot cars only.

WARNING! Not suitable for children under 3 years of age. Choking hazard due to small parts

For more information about our products, visit our homepage.



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Information on product safety

