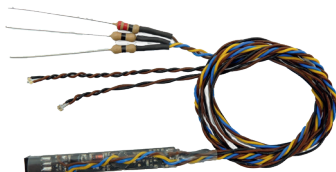


Additional manual

8403

IR Mini



viessmann®

**Innovation,
in motion!**

Traffic Light Control with IR Mini

An intersection setup, as shown in fig. 3 in the manual for traffic lights (item 5096) is described in further detail below.

1. For this setup, two IR Minis (item 8403) are required.
2. Both IR Minis are controlled by traffic light No. 1.
3. Connect the traffic light electronics as shown in fig. 1. Connect the blue control cable of traffic light No. 2 to the socket of traffic light No. 1 with the blue triangle.
4. Both control lines of the IR Minis are combined and, via two diodes in series (e. g. Viessmann item 6834), connected to the output of traffic light No. 1 (blue triangle) along with the control line of traffic light No. 2. See fig. 1 and 2.
5. Before connecting the IR modules, they need to be set up (programmed).
6. Set up the IR Mini module for the main street as follows:
 - 6.1. Connect the IR Mini module to the programming device (item 8401).
 - 6.2. Supply the IR Mini module with power (Transformer Viessmann item 5200).
 - 6.3. Open the CarManager software and select „Pedestrian Crossing“ under „Infrared Commands“. You should now see the screen shown in fig. 3.
 - 6.4. Verify that the the basic command for a „red“ light is „stop“ and for a „green“ light is „continue/drive away“.
7. Set up the IR Mini module for the cross street as follows:
 - 7.1. Similarly, set this module to „Pedestrian Crossing“ under „Infrared Commands“.
 - 7.2. Now select „Inverted mode“. See fig. 4
 - 7.3. This mode reverses the traffic light control signals: green for traffic light No. 1 is interpreted as red and vice versa. This enables opposing operation for the two traffic lights.
8. Now you can make the connections as previously described. Remember to include the diodes in the control line of the IR Mini modules, as shown in fig. 1 and 2.
9. Position the IR transmitter diodes in front of each respective traffic light and test the functionality. As the traffic light operates in automatic mode, each traffic light phase will cycle through sequentially.

Note

Resistor values and therefore the colour codes of the resistors can vary!

Abb. 1

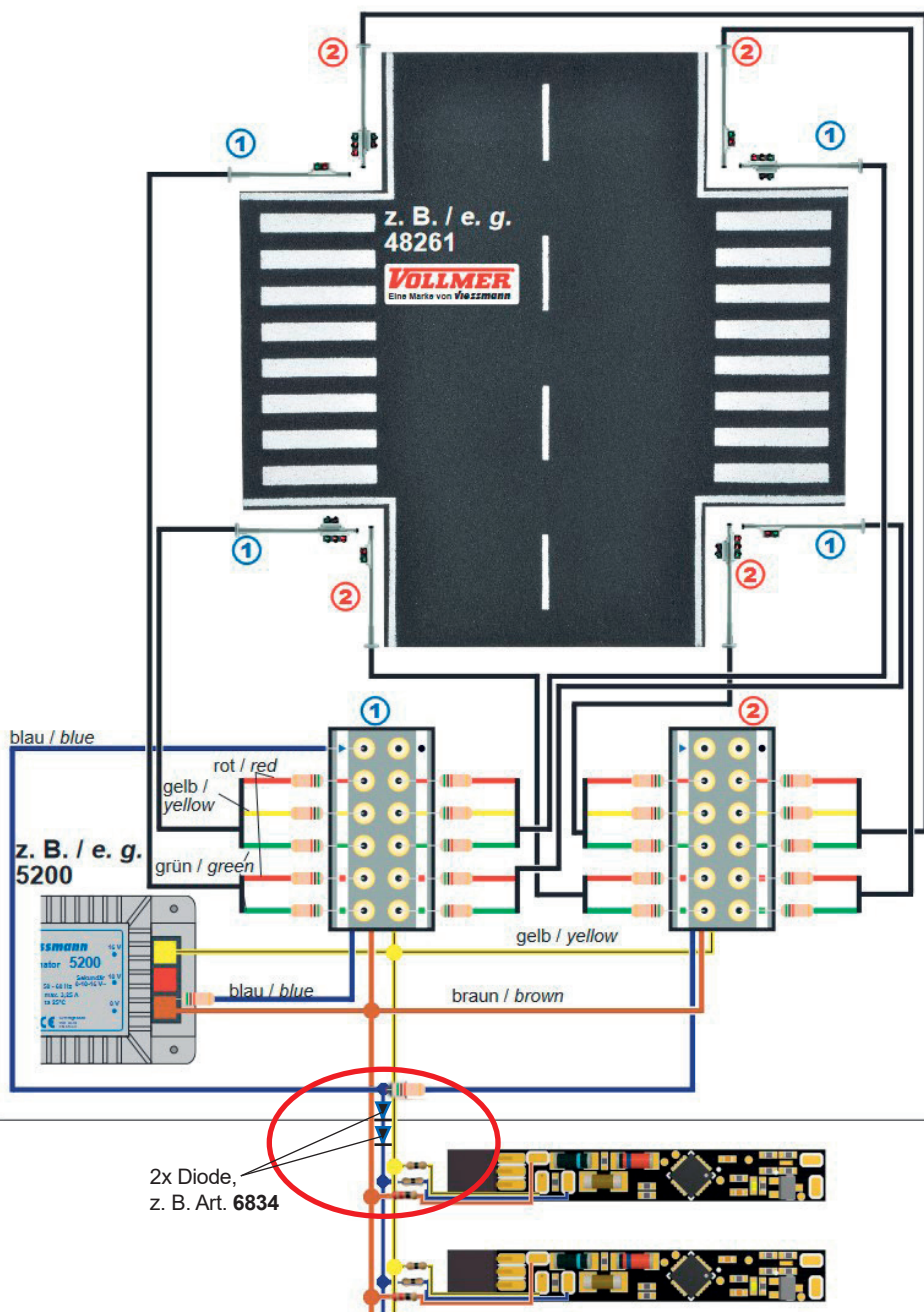


Abb. 2

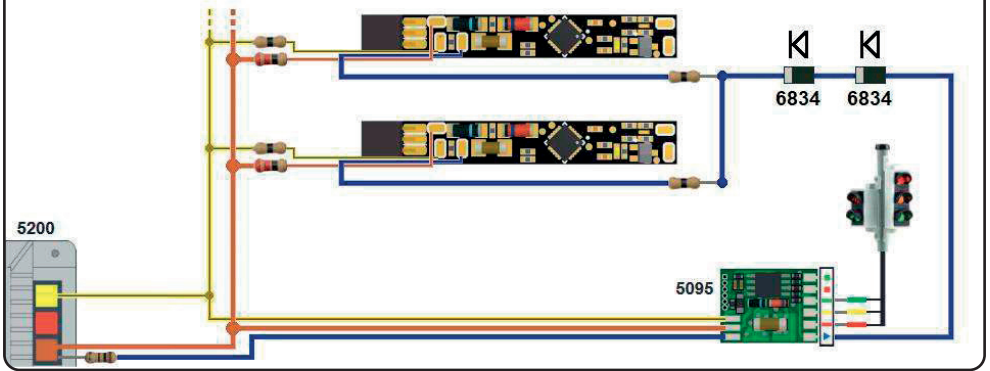


Abb. 3

Viessmann CarManager

USB adapter connected

Product: Viessmann IR Mini

Firmware: 1.04

Language: English

General settings | Backup | Update decoder | Info

General info

Infrared commands

Finetuning

Direct configuration

Infrared commands

Operation mode for the device: ☒ pedestrian crossing ☐ Inverted mode

The module can automatically detect the Viessmann 5094/5095 traffic lights which control a pedestrian crossing. This automatic detection works with the default settings. If the traffic lights are set to automatic mode, they can control this module, which then can stop the vehicles whenever the light is red.

Infrared commands sent from the device to the vehicles ([description of the commands](#))

red traffic light

Basic commands:
 brake
☐ short range signals
☒ custom distance 10 cm
☐ turn signal
☐ set stopping lane
☐ ignored by emergency vehicles

green traffic light

Basic commands:
 continue / drive away
☐ short range signals
☐ turn signal
☐ restore default traffic lane

You can choose a [preset](#) to automatically configure the device for specific use-cases, regardless of the selected input type.

Reset all

the chosen commands require a vehicle firmware of 1.20 or newer.

General info

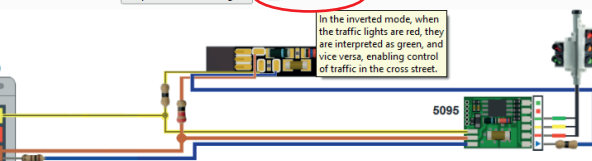
- Infrared commands
- Finetuning
- Direct configuration

Infrared commands

Operation mode for the device

☒ pedestrian crossing☒ inverted mode

5200



5095

In the inverted mode, when the traffic lights are red, they are interpreted as green, and vice versa, enabling control of traffic in the cross street.

The module can automatically detect the Viessmann 5094/5095 traffic lights which control a pedestrian crossing. This automatic detection works even with the default settings. If the traffic lights are set to automatic mode, they can control this module, which then can stop the vehicles whenever the light is red.

- DE** Modellbauartikel, kein Spielzeug! Nicht geeignet für Kinder unter 14 Jahren! Anleitung aufbewahren!
- EN** Model building item, not a toy! Not suitable for children under the age of 14 years! Keep these instructions!
- FR** Ce n'est pas un jouet! Ne convient pas aux enfants de moins de 14 ans! Conservez cette notice d'instructions!
- PT** Não é um brinquedo! Não aconselhável para menores de 14 anos! Conservar o manual de instruções!
- NL** Modelbouwartikel, geen speelgoed! Niet geschikt voor kinderen onder 14 jaar! Gebruiksaanwijzing bewaren!
- IT** Articolo di modellismo, non è un giocattolo! Non adatto a bambini al di sotto dei 14 anni! Conservare istruzioni per l'uso!
- ES** Artículo para modelismo ¡No es un juguete! No recomendado para menores de 14 años! Conserva las instrucciones de servicio!

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