



Traffic light controller

User's manual







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Safety warning

During the operation of the device the specified technical always be met. At the installation the shall environment shall be fully taken into consideration. The device must not be exposed to moisture and direct sunshine.

A soldering tool may be necessary for the installation and/or mounting of the devices, which requires special care.

During the installation it shall be ensured that the bottom of the device should not contact with a conductive (e.g. metal) surface!

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Features and properties

- Two direction crossroad control
- Pedestrian crossing control
- Adjustable sequential change delay
- EU conformity for traffic signals
- Car system stop-magnet control
- · Low stand-by current

Technical parameters

Input power supply: 7-24V

Stand-by current consumption: 20 mA

Max. current: 500 mA Dimensions: 62x38 mm

Short description

The module controls one two-direction crossroad lights. It contains a separated output for pedestrian crossing (walk / dont walk sign) and a Car System stop magnet output.

Wiring

In this section will be discussed the wiring of the module.

Supply voltage input

The supply voltage is connected to the "POWER" terminal.

Traffic light signal output

The traffic lights are connected to these outputs as shown on Figure 1.

The light signals should has a positive voltage (V+) common.

If the used light signals doesn't have a series current limiting resistor, external 4,7KOhm 0,6W resistor is needed per output channels.

Stopping magnets

Car System stop magnets can be connected to the stopping magnet output of the module. They always start operation following the corresponding signal but with a delay. Thus the vehicles start half a second after green sign. The vehicles are stopped a little before when it turns red thus preventing the vehicles from going through a red sign.

Inputs

The traffic sign can be controlled with the inputs. If none of the inputs are active, the module will perform traffic control automatically by its own internal timing.

'A to RED': Traffic signs 'A' will turn red. As long as the input is active the module will retain red sign.

'B to RED': Similar to input 'A' but it will turn traffic sings 'B' red.

Use of inputs: Connect inputs to the 'red sign' output of another module, e.g. 'red' output of the railway crossing. As a result, if the railway crossing is 'red' the traffic light will not turn green on a wired direction.

Adjusting

The sequence timing can be adjusted by the **DELAY ADJUST** potentiometer. This value only adjust the period of full sequence, not the inner timings.

Guarantee and legal statement

Each parameter of the device will be submitted to comprehensive testing prior to marketing. The manufacturer undertakes one year guarantee for the product. Defects occurred during this period will be repaired by the manufacturer free of charge against the presentation of the invoice.

The validity of the guarantee will cease in case of improper usage and/or treatment.

Attention! By virtue of the European EMC directives the product can be used solely with devices provided with CE marking.

The mentioned standards and branch names are the trademarks of the firms concerned.

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Made in Hungary.

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Figure 1.

