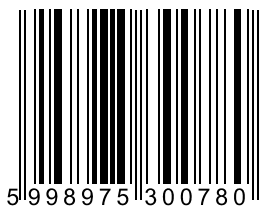


TM-22752
TM-22753



Digital and analog carriage light

User's manual



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Safety warning

During the operation of the device the specified technical parameters shall always be met. At the installation the 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

- Applicable on digital and analog system as well
- Voltage independent constant light intensity
- It can be associated to any function number
- Detailed DCC CV programming
- Slow on/off light effect
- Can be cut as required by the user
- With cold or warm white LEDs
- Low idle mode current consumption

Technical parameters

Supply voltage: 7-24V / DCC

Idle mode current consumption: 10 mA

Max. current consumption: 100 mA

Dimensions: 250x7mm

Short description

Digital and analog carriage lighting panel mountable in railway carriages. In analog mode it ensures voltage independent constant light intensity, in digital mode the lighting can be switched on/off via function buttons.

Order numbers:

With cold white LEDs: TM-22752

With warm white LEDs: TM-22753

Programming

The traditional Direct CV programming modes can be used for programming. The CV programming annex of our digital centre gives more detailed description on this mode.

CV No.	Name	Range	Default value
1	Short address	1-127	3
7	Version number	-	Read only
8	Reset/Manufacturer ID*	-	61

17	Extended address MSB	0-255	0
18	Extended address LSB	0-7	0
29	Settings 0/32: Short/Long address	0-255	0
113	Light intensity	0-255	200
114	Function number	1-16	4

* Write value 8 to CV 8 to reset factory default values.

At programming for long addresses (>127) the address of the decoder can be set by means of two CVs.

E.g. the required address: 5391

$5391 / 256 = 21$ with remainder 15

CV17 = 21

CV18 = 15

Cutting to size

Cutting to size can be performed at the points indicated in Figure 1. Care shall be taken not to damage the circuit; use straight, firm movements for cutting.

Installation

The module shall be fixed to the ceiling of the carriage frame by double-sided adhesive tape.

The wheel collector of the carriage is connected to the points **"POWER"**.

An external capacitor ensuring constant LED light, can be connected to the soldering points **"CAP"**. Take care of the polarity of the capacitor!

Proposed capacitor values:

470uF/35V or 1000uF/35V (included!)

Guarantee and legal statement

Each parameter of the device was 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 directive 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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Figure 1

