

## TLC 2412S CONVERTER FOR VEHICLE LIGHT DEVICES

### Manual:

TLC 2412S converter makes trailer's light devices compatible with electrical installation of towing vehicle. For instance: 12 V installation trailer can be connected – directly to towing vehicle with either 12 V or 24 V installation. The adaptation is automatic.

Most common installation is on trailer, however it can be mounted on towing vehicle too. Trailer lights and installation should always be 12 V. It is suitable for use with common light bulbs, halogen, and LED lights, but not for use with LED lights with electronic transformer. CNV 24/12 provides voltage compatibility and continuous adaption in range between 10 - 30 V.

7 Channels drives: L/R indicators, R/L side lights, brake light, reversing light, rear fog light. Each channel can be loaded up to 7 A. In case of short-circuit or overload, self-recovery fuse of the channel will blow. It will recover in cca. 20 s. All channels are identical and interchangeable, so it doesn't matter which channel you use for which light. However you must strictly observe connection of common negative pole!

Converter is mounted in waterproof plastic case. However for long life service install it on place protected from mechanical injury, water and dirt splashes.

### CAUTION!

- CNV 24/12 is only suitable for installation with common negative (-) pole!
- When connecting observe good mounting of FASTON clips, which should always be well insulated!
- Always mount it on place well-shielded against water and dirt splashes and mechanical injury.
- Some LED lights may require installation of additional resistor in series to use with converter.
- When mounted and permanently connected to towing vehicle it is possible that vehicle's electronics detect converter, but no trailer lights-resulting in light-error detection. Possible solution are additional lights-indicators (cca. 5W) connected to output of the converter.

### Technical data:

Input:	10 - 30 V DC
Output:	10 - 13,5 V ===
Number of channels:	7
Stand-by current:	< 40 mA < 1 W
Single channel load:	max 7 A (80 W)
Over-current protection / channel:	7 A, self recovery
Temperature range:	-30 °C .. +50 °C
Connection clips:	FASTON, M 6,3 mm
Housing; protection degree:	ABS plastic, RAL 7035, IP65
Size (L x W x H); weight:	110 X 80 X 55 mm (without cable glands); 235 g

### Features:

- 7 separated, independent channels
- self recovery fuse for each channel
- constant output / continuous adaption from 10 to 30 V
- waterproof IP 65 casing
- easy mounting and connection
- highly reliable for affordable price / lifetime warranty

**A**

**B**

#### Electrical connector ISO 1724

Wiring instructions for 7 and 13 pin socket and plug

Connection	Wire Colour	Use
1 / L	yellow	left indicator
2 / 54 G	blue	rear fog lamp
3 / 31	white	ground
4 R	green	right indicator
5 / 58 R	brown	light, right side
6 / 54	red	brake light
7 / 58 L	black	light, left side
8	orange	reversing light
9 / 30	blue/thick	reversing light
10	blue/white	reversing light
11	---	---
12	---	---
13	white/blue	---