

CST-24

12-24V TRAILER LIGHTING INTERFACE

Specification Revision 1
2/03/2020

Electrical Parameters

- Nominal voltage: 12-24V
- Operational voltage limits:
11.0V-32.0V
- Nominal rated output power:
84W per channel: 3.5A @ 24V
42W per channel: 3.5A @ 12V
- Peak rated output power:
120W for a single channel:
5A@24V for 30 seconds
60W for a single channel:
5A@12V for 30 seconds
- Operational temperature range:
0 to +80 °C



Mechanical Properties

- 70mm x 50mm x 30mm
- Plastic housing

Functional Description

The CST-24 is a universal solution for interfacing either a 24V or 12V vehicle to a trailer. The CST-24 powers the trailer lighting circuits without loading the vehicle lighting circuits, therefore preventing unwanted fault codes.

Suits modern vehicles including those with a single wire, combined stop/tail feed. The internal microprocessor distinguishes between fault detection and lamp activation.

Over current, over voltage and short circuit protection for all 5 channels:
Left, Right, Stop, Tail (or combined Stop/Tail) and Reverse
Individual channel outputs are compatible with LEDs and Lamps.

Also features a lighting reducer mode for 12V trailers with incandescent lamps. This allows a 24V vehicle to tow a 12V trailer.

Please note lighting reducer mode is **NOT** compatible with LED lights.

Connection / Wiring Information

Input screw terminals:

- Lighting reducer mode - (connect to power to activate)
- Left indicator input from vehicle
- Tail input from vehicle
- Reverse input from vehicle
- Right indicator input from vehicle
- Stop input from vehicle (or combined stop/tail input)
- Earth connection from vehicle

Output screw terminals:

- Power connection from vehicle (12 -24 Volt Power In)
- Left indicator output to trailer
- Tail output to trailer
- Reverse output to trailer
- Right indicator output to trailer
- Stop output to trailer
- Earth connection to trailer