

Product Description

The WeiserCAN Lighting Controller is a CAN-bus controlled solid-state lighting interface designed for automotive and motorcycle applications. The device provides protected, high-side switched outputs with integrated diagnostics and feedback monitoring suitable for OEM integration.

1. Electrical Characteristics

Parameter	Specification
Supply Voltage	8 V to 18 V DC
Fuse Rating	10 A mini-fuse (battery feed)
Operating Current	20 mA (typical)
Sleep Current	< 160 μ A
Number of Outputs	16
Output Protection	Electronic self-resetting eFuses
CAN Interface	CAN 2.0B
Operating Temperature	-30 °C to +60 °C
Ingress Protection	Sealed Unit

2. Output Protection & Diagnostics

All output channels are protected by integrated electronic fuses. In the event of an over-current or short-circuit condition, the affected channel will shut down and automatically recover after the defined over-current reset (ocReset) period.

3. Standard Output Channels

Port	Cable	Ign OFF	Ign ON	I-Max	Power	I-Trip	ocReset
IGNon	Red 0 V	12 V	1.6 A	18 W	1.8 A	100 ms	
AUXbrake	Red 0 V	DOD*	1.6 A	18 W	1.8 A	100 ms	
Rear +12 V (Common)	Yellow	0 V	12 V	1.6 A (combined)	18 W	1.8 A	10 s
Rear Indicator Left	Blue	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms
Brake Left	Grey	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms
Rear Indicator Right	Blue	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms
Brake Right	Grey	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms
Front +12 V (Common)	Yellow	0 V	12 V	1.6 A (combined)			
	18 W	1.8 A	100 ms				
Front Indicator Left	Blue	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms
Front Indicator Right	Blue	0 V	DOD*	1.6 A	18 W	1.8 A	100 ms

4. Notes

DOD* Device Operation Dependant - output state varies based on system command (e.g. indicator flashing). Front and rear +12 V outputs are shared supply rails with combined current limits as specified.

5. Feedback Monitor Outputs

Port	Cable	Ign OFF	Ign ON	Current	Power
Rear Indicator Left	Blue	Open	120 Ω	100-130 mA	1.2-1.7 W
Brake Left	Grey	Open	120 Ω	100-130 mA	1.2-1.7 W
Rear Indicator Right	Blue	Open	120 Ω	100-130 mA	1.2-1.7 W
Brake Right	Grey	Open	120 Ω	100-130 mA	1.2-1.7 W
Front Indicator Left	Blue	Open	120 Ω	100-130 mA	1.2-1.7 W
Front Indicator Right	Blue	Open	120 Ω	100-130 mA	1.2-1.7 W

This document is intended for OEM integration and compliance reference. Specifications are subject to change without notice.



Designed & Manufactured in the UK