

TWO YEAR WARRANTY

REDARC Electronics warrants to the original purchaser that the product(s) on the reverse side of this sheet ("Product") will be free, under normal use and maintenance, from defects in material and workmanship for a period of TWO YEARS from the date of purchase, subject to the conditions shown below.

1. Warranty

Unless otherwise stated in this warranty, Redarc Electronics will at its sole discretion either replace or repair any of the Product that is defective in material or workmanship within the abovementioned period without charge to the original purchaser.

2. Other Warranty

Subject to any terms implied by law, this warranty contains the whole of the Redarc Electronics' obligations and any distributor and the agents, officers and employees of such distributor and of Redarc Electronics are not authorised to vary or extend the terms of the warranty. The benefits conferred by this warranty are in addition to the conditions and warranties implied by applicable legislation conferring rights upon consumers, which apply only to the extent to which they may not by law be excluded.

3. Exclusions

This warranty shall not apply to, or include, any of the following:

- 3.1 Any defect or failure due to accident, misuse, abuse, movement of the Product to a new site, negligence, non-observance of any of the instructions supplied with the Product including the instructions on the reverse side of this sheet ("Operating Instructions") or local regulations on the part of any user, choice of location, improper installation, configuration or connection, or faulty power supply.
- 3.2 If the Product is installed, repaired or serviced by a person who is not a qualified auto electrician or electronics technician, or if non-approved parts have been fitted.
- 3.3 Failure to obtain proper maintenance for the Product or any associated equipment or machinery.
- 3.4 Failure to pay for the products in full or comply with Redarc Electronics' Trading Terms.
- 3.5 If the Product is used other than for any reasonable purpose for which it was manufactured, or is used in a way not specified by Redarc Electronics.
- 3.6 If the original purchaser sells, leases or otherwise parts with possession of the Product.
- 3.7 Deterioration due to normal use and exposure, including abnormal environmental conditions such as lightning strike, flood and extreme heat.
- 3.8 Any freight, packing and insurance expenses relating to transportation of the Product.
- 3.9 Any expenses relating to installation and/or removal of the Product.
- 3.10 Any damage, indirect or incidental, of whatever nature.

4. Limitations

- 4.1 Redarc Electronics is not liable for any consequential, indirect or accidental loss or damage or for any service not expressly provided herein (including without limitation liability for any loss or damage caused by a fault in the Product or its external wiring connections) and the liability of Redarc Electronics under this warranty is limited to the repair or replacement of defective material or workmanship by a qualified auto electrician or electronics technician, provided such person and work is approved by Redarc prior to commencement. Subject to **clause 2**, Redarc Electronics is hereby excluded to the maximum extent permitted by law from all other liability in respect of the Product.
- 4.2 While Redarc Electronics warrants, where applicable, that the Product is free from defects in materials and workmanship under normal use at the time of delivery, Redarc Electronics does not warrant that the Product will meet any user specific requirements or that the operation of the Product will be uninterrupted or error-free.

5. Owner's Responsibilities

- 5.1 Maintenance of the Product and associated equipment and/or machinery is the responsibility of the owner. The owner must retain evidence that proper maintenance has been performed on the Product by Redarc Electronics or a qualified auto electrician or electronics technician. Claims made during the warranty term will not be accepted if resulting from lack of maintenance rather than faulty material or workmanship.
- 5.2 The owner must operate the Product in accordance with all of the Operating Instructions.
- 5.3 Upon discovery of a fault the owner must return the Product to the distributor with full details of the nature of the fault. Removal of the Product must be done by a qualified auto electrician or electronics technician to ensure that the warranty remains valid. A written report describing the circumstances of failure must accompany the returned Product with proof of purchase which clearly shows the date of such purchase by the original purchaser.
- 5.4 If the Product is found to be working satisfactorily on return to Redarc Electronics a reasonable charge will be made for the cost of testing, packing and freight. The Product will be returned on receipt of the amount charged.

FREE TECHNICAL ASSISTANCE

REDARC

THE POWER CONVERSION SPECIALISTS
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Lonsdale
South Australia 5160
Phone: 08 8322 4848
Fax: 08 8387 2889
Email: power@redarc.com.au
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BUSF200 School Bus Headlight Flasher.



FUNCTION

The microprocessor controlled BUSF200 has five outputs for school bus hazard lights on 12V or 24V negative earth vehicles. The alternating outputs and strobe output draw their current from the main supply input, with a small current drawn by the "ON" switch. The alternating headlight outputs, the strobe output and the high beam disable operate only while the door is open. The alternating amber flashing lights ("WIG-WAG") outputs operate while the door is open and for 20 seconds after it is closed. The two "DOOR OPEN" inputs allow for either a positive or ground signal to trigger the BUSF200, depending on vehicle door switch wiring.

FREE TECHNICAL ASSISTANCE, contact Redarc Electronics
Ph (08) 8322 4848, Fax (08) 8387 2889
or Email power@redarc.com.au
Specifications are subject to change without notification.

RATINGS

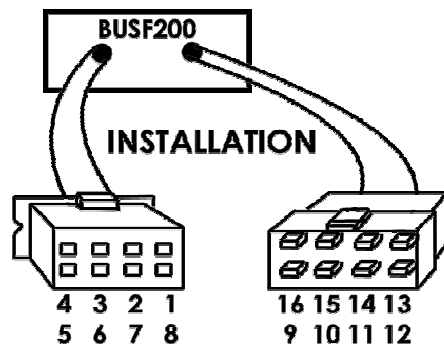
Each **SIDE** is rated at 200W, i.e. the left headlight and wig wag combined can be up to 200W (the same applies to the right side). The **ALTERNATING** outputs will not be harmed by overloads or short circuits as the **BUSF200** has an inbuilt automatic current limit. The unit should be mounted inside (E.g. under dash) and protected from excessive heat and moisture.

CONNECTIONS

The **BUSF200** has 16 connections to be connected as shown.

- 1 **BROWN** - Lo beam (GND Switch)
- 2 **N/C**
- 3 **ORANGE** - O/P to left wig-wag
- 4 **N/C**
- 5 **GREEN** - O/P to right wig-wag
- 6 **BLUE** - GND door Switch
- 7 **VIOLET** - O/P to strobe
- 8 **GREY** - +12/24V Supply
- 9 **WHITE** - +Supply door open switch
- 10 **BLACK** - ON switch, 12/24V
- 11 **BROWN/WHITE** - Right low beam O/P
- 12 **RED/WHITE** - Negative GND connection
- 13 **ORANGE/WHITE** - Left low beam O/P
- 14 **YELLOW/WHITE** - From high beam switch
- 15 **GREEN/WHITE** - To high beam
- 16 **BLUE/WHITE** - Low beam

Leave any un-used inputs and outputs un-connected & taped over to prevent shorts. During installation, it will be necessary to ensure the headlights have separate wires to allow them to operate independently.



WIRING EXAMPLES

