

**Multi Circuit
24 to 12 Volt DC Reducers**
Used for Incandescent & LED Lighting Only
Operating Instructions
Please read these instructions before use



Multi circuit reducers are designed specifically for applications with incandescent & LED lighting for caravans, box trailers and other automotive vehicles. When choosing which model to use you should determine the load required to be carried by each circuit as accurately as possible and choose the model which has a capacity of 10-15% above the estimated current needed to allow for wiring resistance in trailers. The MCR 120 and MCR 240 series are designed for caravans, box trailers and other small trailers where the length of cable does not exceed 6m.

MCR 120	
TOTAL 120W	
PURPLE	24V INPUT
BROWN	PARK
YELLOW	L.FLASH
GREEN	R.FLASH
RED	BRAKE
BLACK	GROUND

MCR 240	
TOTAL 240W	
PURPLE	24V INPUT
BROWN	PARK
YELLOW	L.FLASH
GREEN	R.FLASH
RED	BRAKE
BLACK	GROUND

Please Choose a Mounting place that:

1. Has good ventilation where air can pass freely around the unit.
2. Is away from where external heat is produced or near where the batteries are located e.g. exhaust system
3. Is protected from water spray and other sources of contamination e.g. oil and grease.
4. Is away from combustables e.g. Fuel Lines.
5. Fix to a metal surface.

Connection:

1. Install using the wiring code above. NOTE: Wiring harness with purple wire is the 24V input harness.
2. Limit the length of cable. If the cable exceeds 6m, voltage loss may occur
3. When testing the unit, a minimum load of 100ma is required in order to activate the reducer. Under no load conditions output readings of 24 volts will be obtained.

Note: The unit can only be tested using a test light or oscilloscope. Do not connect circuits in parallel.

Warranty Conditions: Our products come with guarantees that cannot be excluded under the Australian Consumer Law.

The customer is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. The customer is also entitled to have the products repaired or replaced if the products fail to be of acceptable quality and the failure does not amount to a major failure.

GSL Electronics (GSL) warrants that its products will, under normal use and service, be free of defects in material and workmanship for a period of two (2) years from the date of the original purchase by the customer as marked on the customer's original invoice. Please refer to our website for full warranty and return information which can be found at <http://www.gsl.com.au/faq.html>