

**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.

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

<b>MCR 240</b>	
<b>TOTAL 240W</b>	
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:* The product is warranted to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the date of sale. This warranty covers defective parts and workmanship provided that the product is shipped prepaid to the seller within 24 months of purchase of goods. This warranty is limited to the repair or replacement (at the manufacturers' discretion) of parts and shipping prepaid to the original despatch destination. We regret that no liability can be accepted for consequential or special damages of any kind howsoever arising in connection with products supplied by the seller. This warranty is in lieu of all other warranties expressed or implied. No representative is authorised to assume for the seller any other liability in connection with the seller's products.