

## MULTIGUARD Output Driver Interface MG020000 & MG02000P

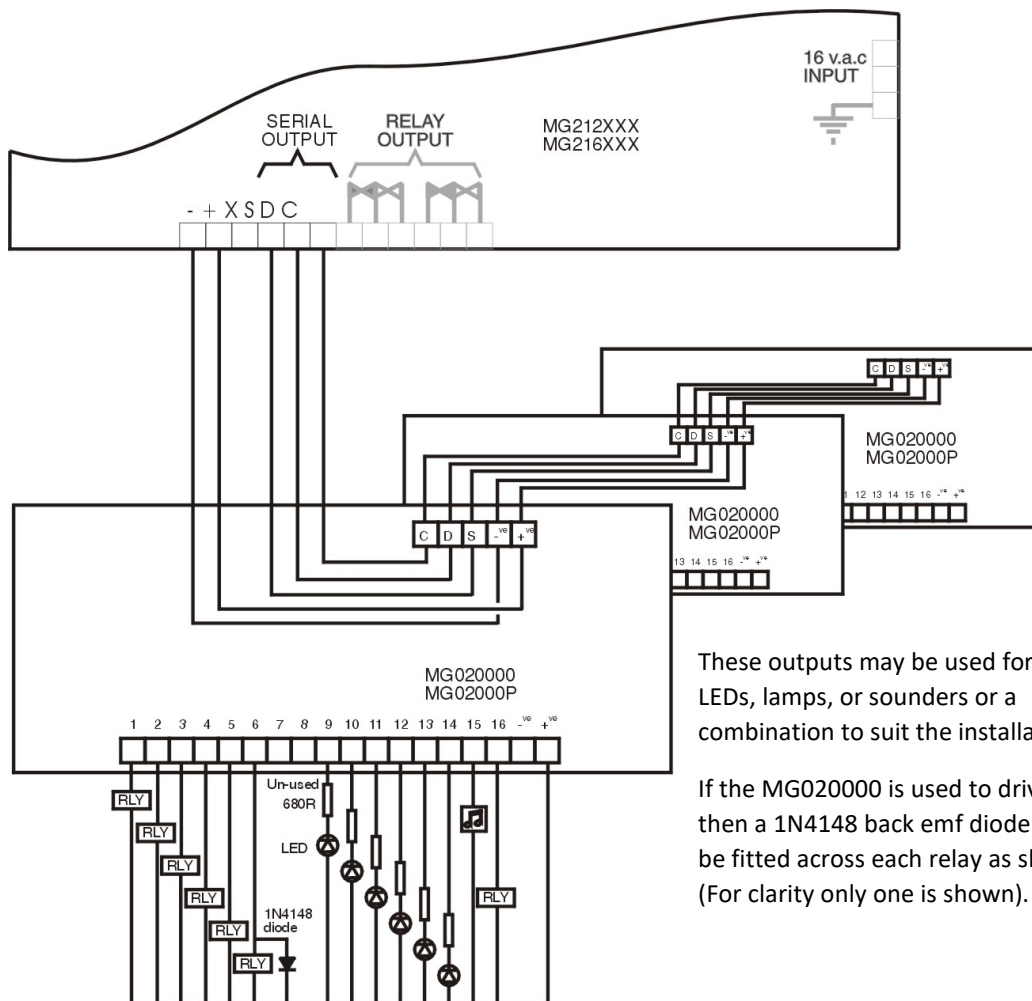
The MULTIGUARD MG020000 and MG02000P are electrically identical. They enable the serial output an MG series MULTIGUARD annunciator to be used to drive remote devices such as LEDs, Overdoor lights, Low power sounders and relays etc.

The MG02000P is supplied on a double gang plastic plate to enable it to be fitted externally to the annunciator at a point closer to the devices it is driving. The pcb can be remove from the plate and fitted inside the MULTIGUARD if desired. To do this the board edges must be snapped off at the score lines prior to fitting in the annunciator back box.

If the unit is mounted remotely then a five core connection is required +ve -ve Clock, Data & Strobe. This will enable a total of 16 driver outputs. Normally these would be:-

- a. 6 outputs to follow the LEDs of the MULTIGUARD
- b. 6 outputs which change state on alarm and restore on reset
- c. 4 further four outputs:
  - i. 1 output which follows the integral buzzer
  - ii 1 output which follows the integral relay
  - iii 2 spare outputs which are normally spare but can be nominated by software for custom designed equipment.

Each output offers a switched -ve common collector from a NPN Darlington transistor capable of supplying up to 500ma. Please note that this is subject to a total limit per card of 2A. Note the MG212100 and MG216110 are only able to provide a maximum of 250ma for external use.



These outputs may be used for relays, LEDs, lamps, or sounders or a combination to suit the installation.

If the MG020000 is used to drive relays then a 1N4148 back emf diode should be fitted across each relay as shown. (For clarity only one is shown).