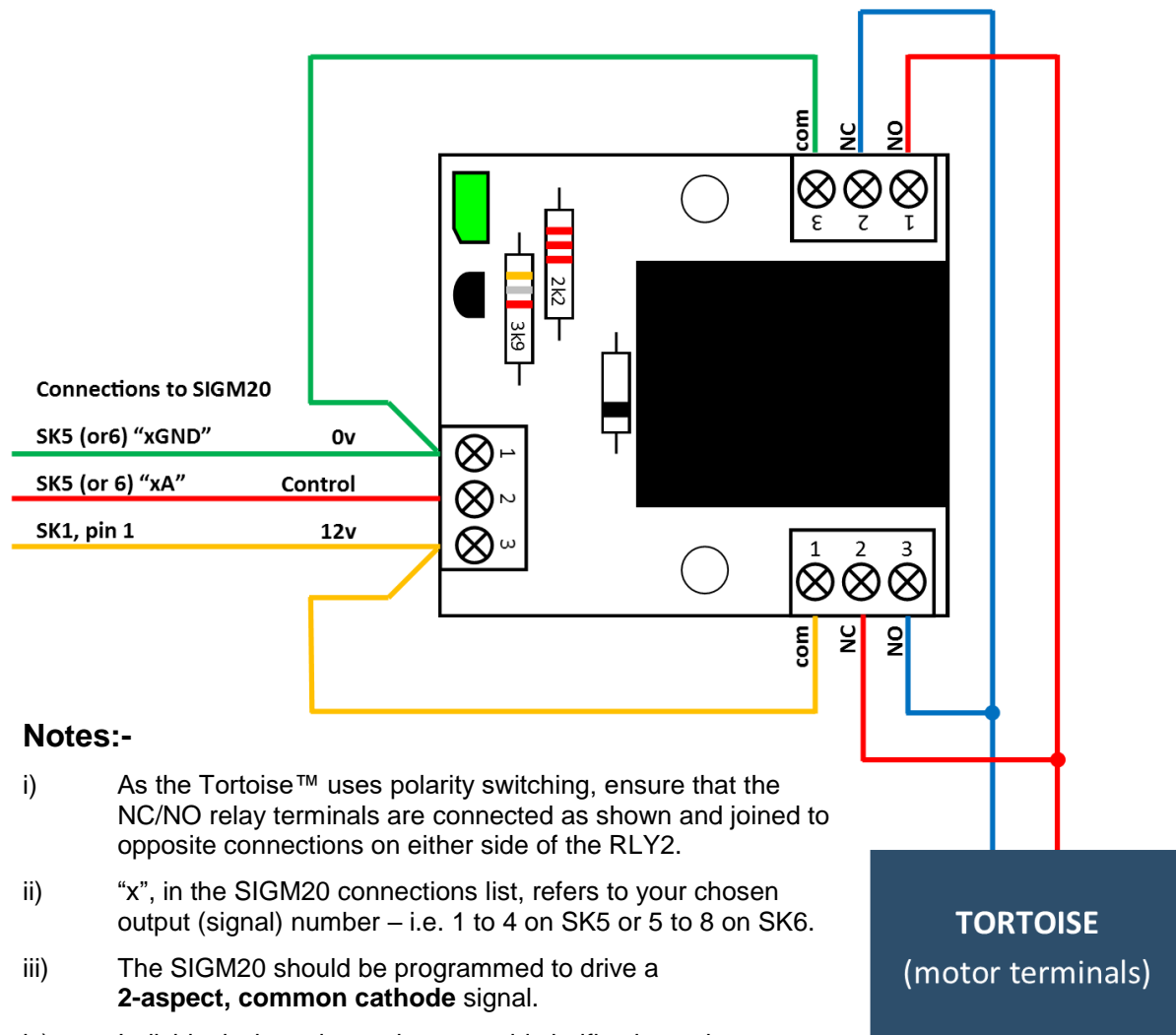


Operating semaphore signals from the SGM20 using a Tortoise™ and RLY2 Relay Board

As the SGM20 is designed to operate low voltage LED's, devices with higher power consumption – or reversible drive - such as the Tortoise™ point motor require a relay to switch the power from the 12v supply to/from the SGM20.

GFB Designs can supply the RLY2 board which serves this purpose and should be wired as indicated below to control semaphore signals using the Tortoise™ slow motion point motor.

Wiring Diagram



Notes:-

- As the Tortoise™ uses polarity switching, ensure that the NC/NO relay terminals are connected as shown and joined to opposite connections on either side of the RLY2.
- "x", in the SGM20 connections list, refers to your chosen output (signal) number – i.e. 1 to 4 on SK5 or 5 to 8 on SK6.
- The SGM20 should be programmed to drive a **2-aspect, common cathode** signal.
- Individual wire colours shown to aid clarification only.

Relay contacts:-

com	Common
NC	Normally Closed
NO	Normally Open