

**Commissioning and testing must only be carried out by a qualified and competent Technician who is fully familiar with the plant to which the "Rotech" equipment is Installed.**

1 The SR 4000 Speed Relay monitors the speed of a drive and gives a signal if the speed of the drive falls below or rises above its normal running speed, the output relay of the SR 4000 can be connected to give a variety of control functions.

- 1.1 The output relay can be connected to sound an alarm, bring on a warning light, etc
- 1.2 It can be connected into the motor control circuit to switch off / trip out the drive motor.
- 1.3 It can be connected into the motor control circuit of a conveyor, machine, etc, proceeding the drive to which it is fitted, to stop the delivery of material, etc to the drive that has slowed down or stopped.
- 1.4 With the use of additional control relays and / or timers the above functions can be combined, plus many others created.

2 Use of the start up delay is optional, this feature is normally only required when the SR 4000 is connected as in 1.2 above and the time taken to reach normal, running speed is several seconds longer.

#### SETTING UP

- 1 Check that all connections are correct and any links fitted to select the running speed range.
- 2 Turn the potentiometer on the SR 4000 Speed Relay fully anti – clockwise.
- 3 Start the drive.
- 4 "Supply On" and "Relay On" indicators should be illuminated and "Input" indicator should be pulsing or partly illuminated.
- 5 Turn the potentiometer slowly clockwise until the "Relay On" indicator extinguishes.
- 6 Now turn potentiometer anti – clockwise until "Relay On" indicator just illuminates.
- 7 The SR 4000 Speed Relay is now set to de- energise if the speed of the drive decreases below that set on the potentiometer.
- 8 If the drive is subject to temporary short period decreases in speed that you wish to ignore, the potentiometer can be turned further anti- clockwise to say 80% or 70% etc, of normal speed, the SR 4000 Speed Relay will then only de – energise if the speed of the drive falls below this setting.
- 9 Test by starting and stopping the drive, when running normally "Relay On" indicator will be illuminated, observe that when the stop button is pressed, as soon as the drive speed decreases below that set on the potentiometer, the "Relay On" indicator extinguishes.