

# **ZERO SPEED SWITCH**

## **DIP SWITCH SETTINGS**

8 BIT DIP SWITCH – 1 = RPM SET = 0.1 RPM TO 25.5 RPM

8 BIT DIP SWITCH – 2 = 1<sup>ST</sup> 4 BIT = INITIAL DELAY SET = 2 SEC. TO 75 SEC.

8 BIT DIP SWITCH – 2 = 2<sup>ND</sup> 4 BIT = FINAL DELAY SET = 2 SEC. TO 75 SEC.

## **FORMULAE**

TIME IN SECONDS = 60 /RPM SET

TOTAL TIME = INITIAL DELAY + RPM DELAY + FINAL DELAY

### **Illustration:-**

1. RPM SET = 0.1 RPM

INITIAL DELAY = 2 SEC.

FINAL DELAY = 2 SEC.

RPM DELAY =  $60/0.1 = 600$  SECONDS

TOTAL TIME =  $2 + 600 + 2 = 604$  SECONDS = 10 MIN.4 SEC.

FREQUENCY =  $0.1/ 60 = 0.0017$  HZ

2.. RPM SET = 0.1 RPM

INITIAL DELAY = 2 SEC.

FINAL DELAY = 75 SEC.

RPM DELAY =  $60/0.1 = 600$  SECONDS

TOTAL TIME =  $2 + 600 + 75 = 677$  SECONDS = 11MIN.17 SEC.

FREQUENCY =  $0.1/ 60 = 0.0017$  HZ

## **Functional Description**

1. If consecutive pulse available for the set RPM relay energises.
2. If consecutive pulse not available for the set RPM relay de-energises after RPM delay  
Final delay.
3. If the pulse is not present from the beginning of the process relay de-energises after Initial  
delay plus RPM delay plus Final delay.
4. The process can be restarted by giving restart command manually.