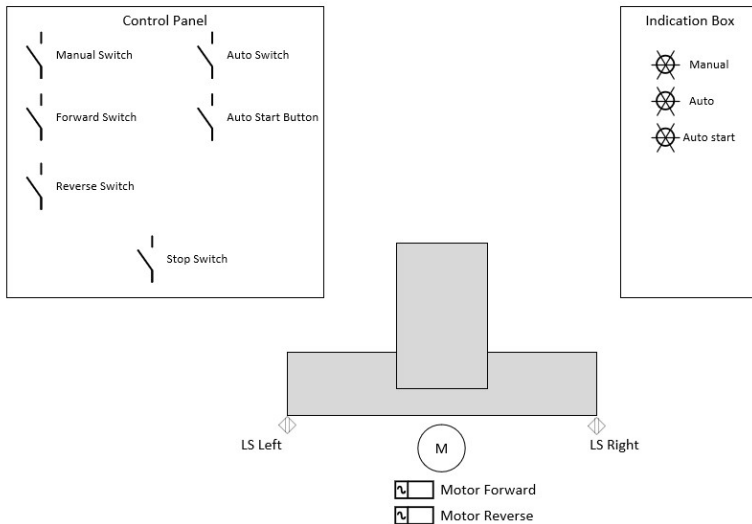


Drilling Control Machine



Manual operation:

- When *Forward Switch* is ON, motor moves forward. It can be stopped by *Stop Switch*. When the drill touches *Limit Switch Right*, the motor is cut-off.
- When *Reverse Switch* is ON, motor moves in reverse. It can be stopped by *Stop Switch*. When the drill touches *Limit Switch Left*, the motor is cut-off.

Automatic operation:

When *Auto Start Button* and *Limit Switch Left* are ON, the motor moves forward until *Limit Switch Right* is activated. The Timer makes delay of 4 sec. and motor reverses after this time. When it returns to *Limit Switch Left* position, the cycle is repeated.

```

1  PROGRAM MAIN
2  VAR
3      // Control Buttons
4      ManualSwitch: BOOL;
5      AutoSwitch: BOOL;
6      AutoStartButton: BOOL;
7      ForwardSwitch: BOOL;
8      ReverseSwitch: BOOL;
9      StopSwitch: BOOL;
10
11     // Limit switches
12     LimitSwitchRight: BOOL;
13     LimitSwitchLeft: BOOL;
14
15     // Operation modes
16     ManualMode: BOOL;
17     AutoMode: BOOL;
18     AutoStart: BOOL;
19     ManualForward: BOOL;
20     ManualReverse: BOOL;
21     ConfirmAutoForward: BOOL;
22     AutoForward: BOOL;
23     AutoReverse: BOOL;
24
25     // Output coils
26     MotorForward: BOOL;
27     MotorReverse: BOOL;
28
29     // Aux. blocks
30     tonForward: TON;
31  END_VAR

```

