

Emergency Stop function V. 1.0

Descriptions

This function decodes and recognize cases that requires immediately motor stop. Actually are provided stop for :

- *Contemporary push ON of the “BACKWARD” (PIN 24 A3) and “FORWARD” (PIN 23 A2).*
- *When “FORWARD” goes OFF in the case of Motion tasks operation.*
- *Motor overcurrent limit reached.*

The state of alarm stop is reset when are in OFF both “BACKWARD” and “FORWARD” command.

Syntax: `EmergencyStop()`

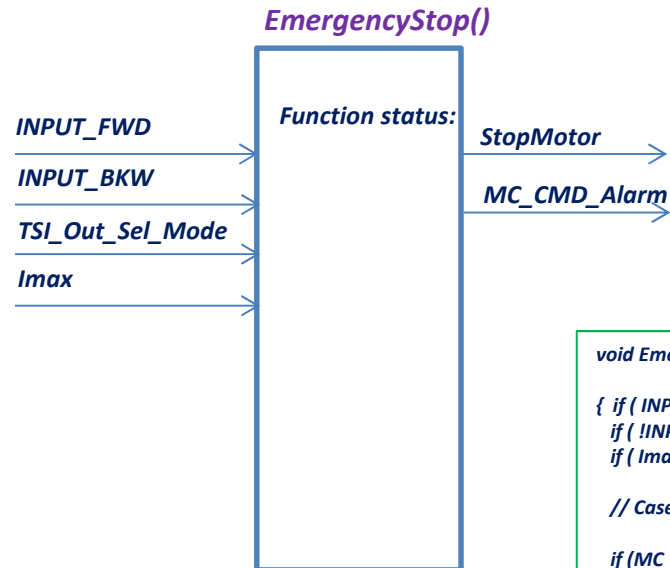
Input parameters: `INPUT_FWD, INPUT_BKW, TSI_Out_Sel_Mode, lmax`

Output parameters: `StopMotor, MC_CMD_Alarm`

Status:

Calls:

EmergencyStop function



```
void EmergencyStop()
{
  if ( INPUT_FWD && INPUT_BKW ) {StopMotor = true; MC_CMD_Alarm = true;}
  if ( !INPUT_FWD && (TSI_Out_Sel_Mode == 2) ) {StopMotor = true; MC_CMD_Alarm = true;}
  if ( Imax ) {StopMotor = true; MC_CMD_Alarm = true;}

  // Cases that reset the state of Alarm and STOP MOTOR:

  if (MC_CMD_Alarm) {MC_CMD_Alarm = (TSI_ST_FWD || TSI_ST_BKW); StopMotor = false; Imax = false;}
}
```

