

In position function V. 1.0

Descriptions

This function set the output positions flag. They are:

- *Neg_Limit when the actuator is on mechanical reference.*
- *Pos_Limit when the actuator is on max stroke position.*
- *Pos_Window when the actuator in on the target position during Motion task.*

Syntax: ***In_Position()***

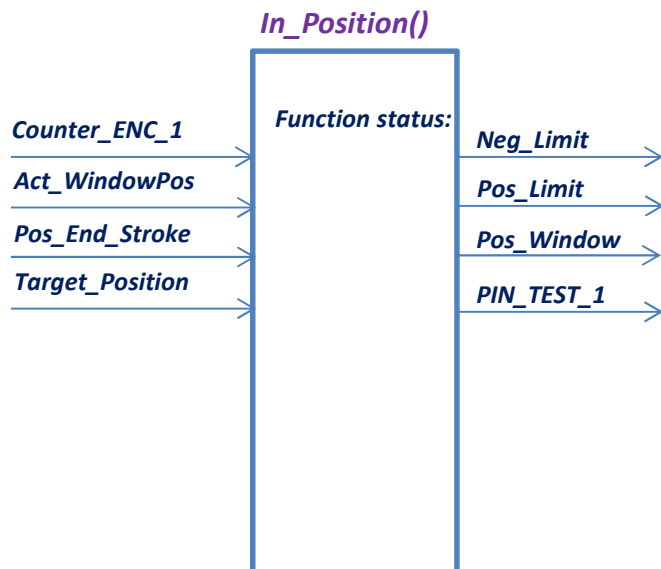
Input parameters: ***Counter_ENC_1, Act_WindowPos, Pos_End_Stroke, Target_Position.***

Output parameters: ***Neg_Limit, Pos_Limit, Pos_Window, PIN_TEST_1***

Status:

Calls:

In_Position function



```

void In_Position ()
{
  if (Counter_ENC_1 <= Act_WindowPos)           {Neg_Limit = true ;}
  else                                           {Neg_Limit = false ;}
  if (Counter_ENC_1 >= (Pos_End_Stroke - Act_WindowPos)) {Pos_Limit = true ;}
  else                                           {Pos_Limit = false ;}

  if (Neg_Limit || Pos_Limit || Pos_Window)      {digitalWrite (PIN_TEST_1, HIGH);}
  else                                           {digitalWrite (PIN_TEST_1, LOW);}

  Act_dTarget = abs(Target_Position - Counter_ENC_1); // This variable is delta space respect Target Position

  if (Act_dTarget <= Act_WindowPos)             {Pos_Window = true;}
  else                                           {Pos_Window = false;}
}

```

