

AKI Sample Project: Cut To Length

Overview

This HMI program is set up to run one motion task in the AKD drive. The operator can edit the distance and speed of the motion task for each move. It is intended to use a motion task type of “relative” so as to define a travel distance. Indicators show the status of motion. The HMI will indicate whether or not homing is required and the homing move can be started from the HMI. The homing screen is not set up to configure the homing move, so it needs to be set up in Workbench. This program is also set up to run a manual jog move in velocity mode. The HMI will indicate an alarm whenever a fault is active and it provides the capability of clearing the faults.

Features:

- Start homing
- Display homing status
- Edit distance and speed of Motion Task 1
- Run motion task 1
- Display an alarm and show fault codes
- Clear faults
- Jog in velocity mode
- Stop motion
- Continue a move that was stopped prematurely
- Enable/disable
- Display actual position

Requirements:

- HMI program is set up for the AKD to have IP Address 192.168.0.2.
- Must have Motion Task 1 saved in the drive with “Relative” move type
- Must have the desired homing type saved in the drive
- Must have MODBUS.SCALING = 0 in order to use normal drive units.

HMI Screenshots

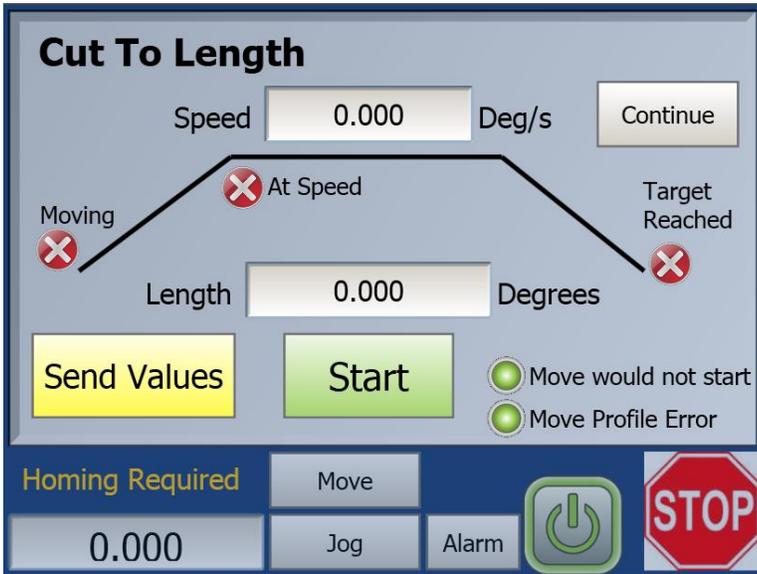


Figure 1: Main

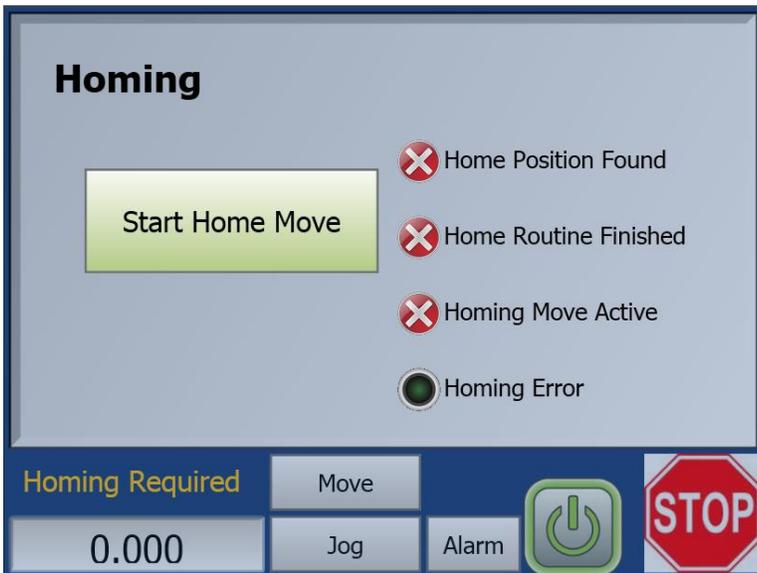


Figure 2: Homing

Application Note

KOLLMORGEN

Because Motion Matters™



Figure 3: Manual Jog

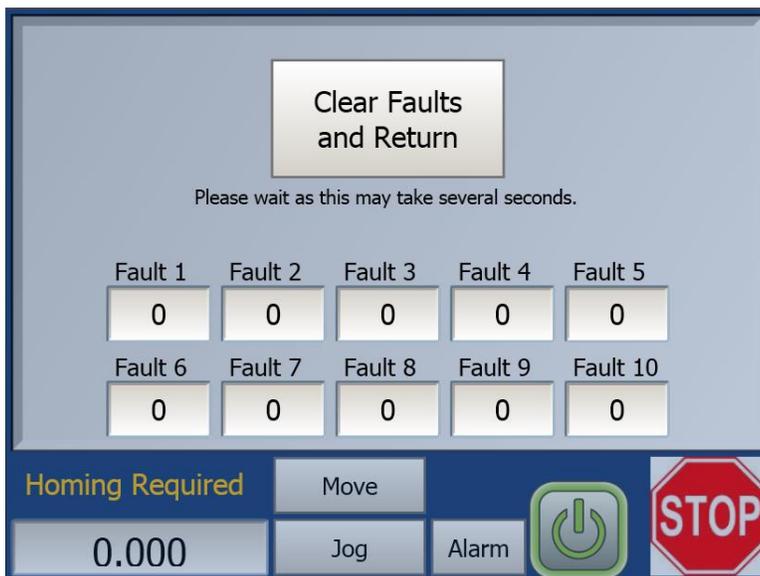


Figure 4: Fault Status

Script Programming in C#:

Tags:

```
public partial class MT
{
    //When the Motion Task (Cut to Length) screen is opened,
    //set the following parameters.
    //Create this code by expanding the screen name (MT) in the tree,
    //and double clicking on "Opened".
    void MT_Opened(System.Object sender, System.EventArgs e)
    {
        Globals.Tags.DRV_OPMODE.Value = 2; //set opmode to Position
        Globals.Tags.MT_NUM.Value = 1; //set to Motion Task 1
        Globals.Tags.MT_LOAD.Value = 1;
        //load Motion Task 1 values to MT parameters
    }
}
```