

## Documentation Beckhoff Terminal Motion 1.2

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This document describes the usage and installation of the EtherCAT Framework driver library “Beckhoff Terminal Motion“ version 1.2.

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## **1 General Information**

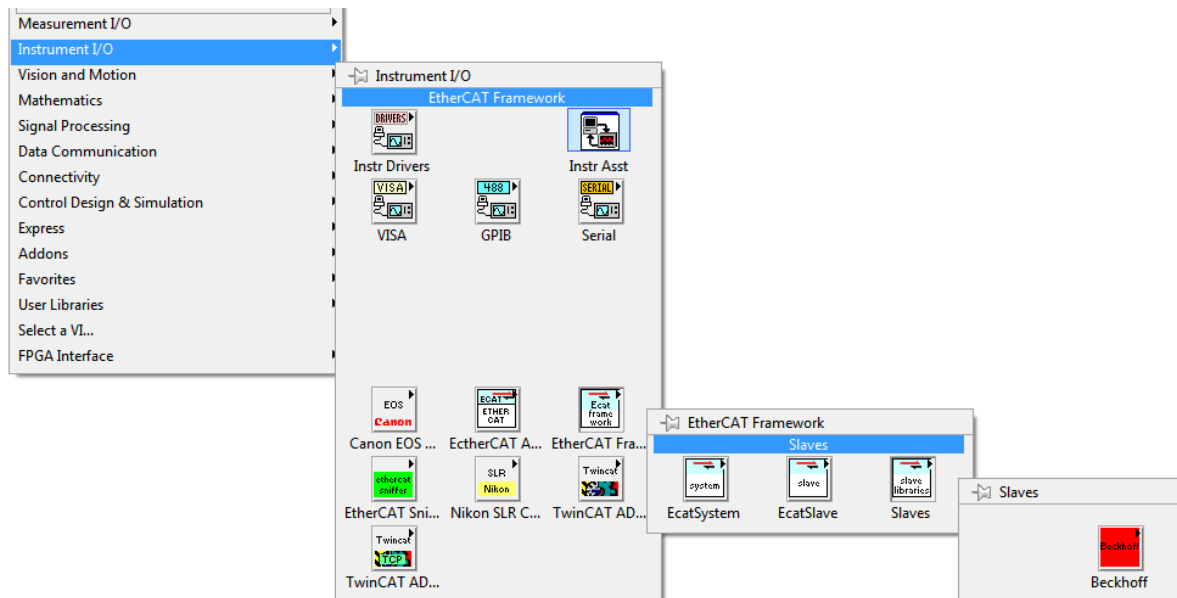
The Beckhoff Terminal Position driver library is based on the EtherCAT Framework and covers Beckhoff EtherCAT terminals for motion control with stepper and DC motors. It consists of different classes for terminal types and provides VIs for the specific functionality and configuration of the corresponding terminals.

## 2 Installation

### 2.1 LabVIEW Library

The installer installs files directly to the LabVIEW folder (..\program files\National Instruments\LabVIEW xx\..)

The functions palette is installed in Instrument Drivers.



### 2.2 LabVIEW Examples

The examples are installed in the LabVIEW examples folder “..\Program Files\National Instruments\LabVIEW xx\examples\Ackermann Automation\EtherCAT Framework “.

### 2.3 Documentation

All further documents can be found in:

“..\Program Files\Ackermann Automation\EtherCAT Framework\Docs“

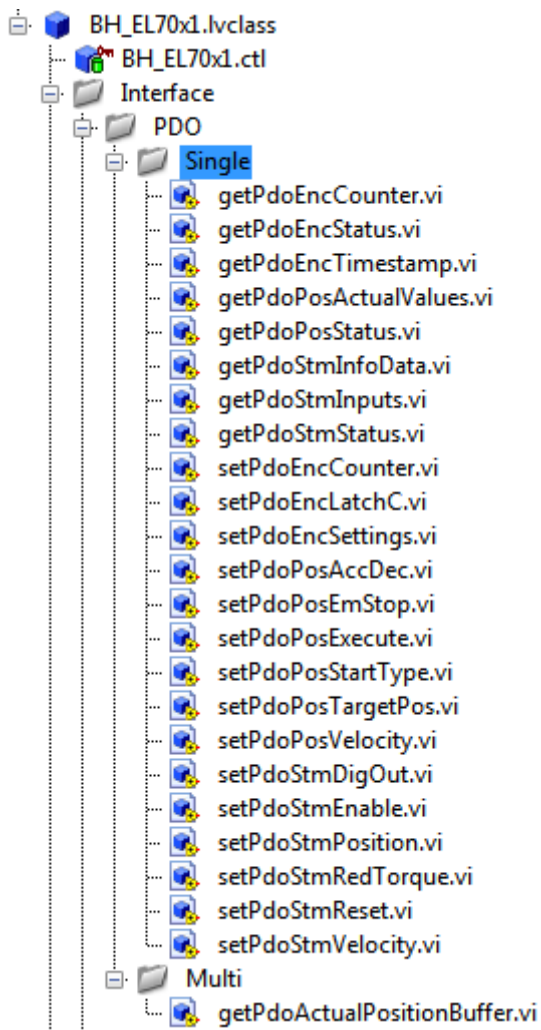
The VI documentation can be found in the help chm files of the VI libraries.

## 3 Slave Classes

### 3.1 EL70x1

This class covers the Stepper motor terminals EL7031 and EL7041

These following VIs are included in the library:

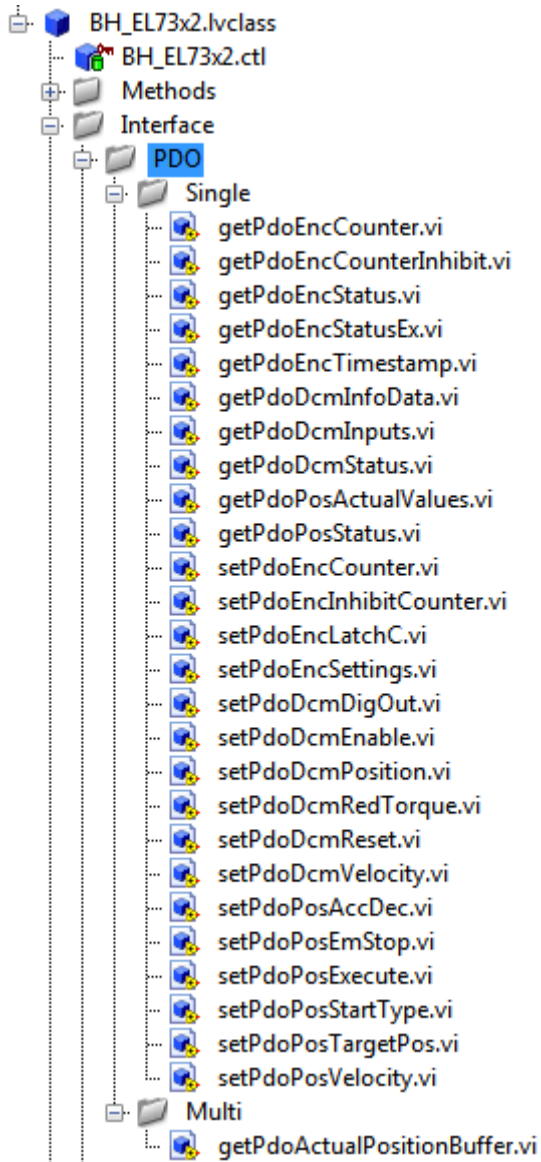


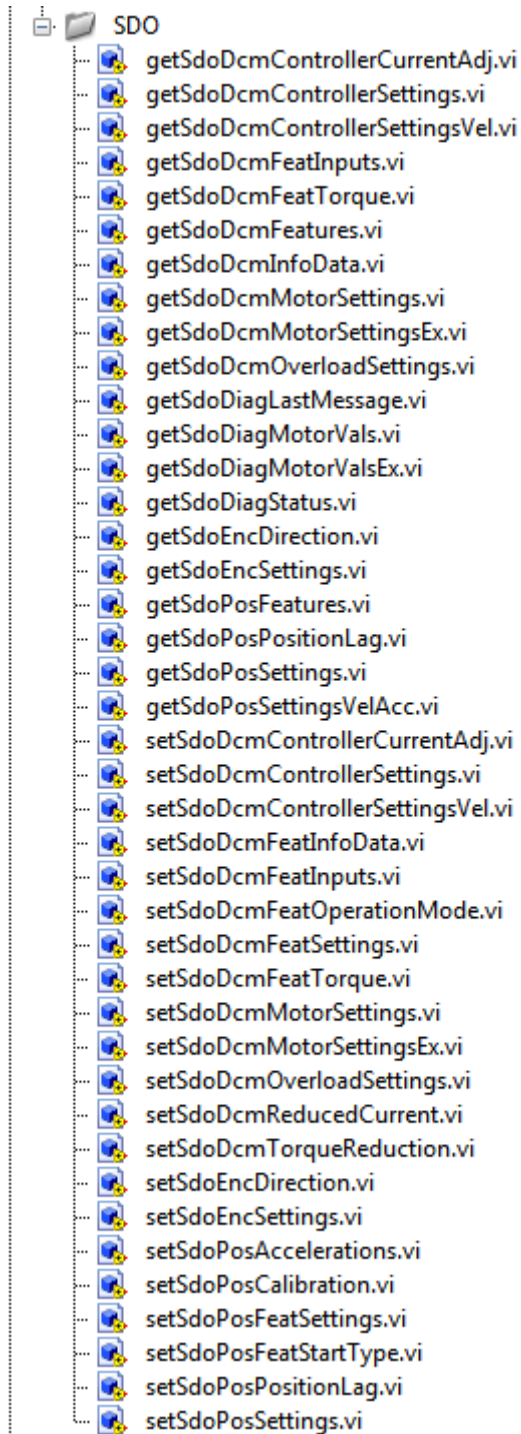
- SDO
  - getSdoDiagLastMessage.vi
  - getSdoDiagMotorVals.vi
  - getSdoDiagMotorValsEx.vi
  - getSdoDiagStatus.vi
  - getSdoEncDirection.vi
  - getSdoEncSettings.vi
  - getSdoPosFeatures.vi
  - getSdoPosSettings.vi
  - getSdoPosSettingsVelAcc.vi
  - getSdoStmControllerSettings.vi
  - getSdoStmFeatInputs.vi
  - getSdoStmFeatOutputs.vi
  - getSdoStmFeatures.vi
  - getSdoStmFeedbackType.vi
  - getSdoStmInfoData.vi
  - getSdoStmMotorEncoder.vi
  - getSdoStmMotorSettings.vi
  - setSdoEncDirection.vi
  - setSdoEncSettings.vi
  - setSdoPosAccelerations.vi
  - setSdoPosCalibration.vi
  - setSdoPosFeatSettings.vi
  - setSdoPosFeatStartType.vi
  - setSdoPosSettings.vi
  - setSdoStmControllerSettings.vi
  - setSdoStmFeatInputs.vi
  - setSdoStmFeatOperationMode.vi
  - setSdoStmFeatOutputs.vi
  - setSdoStmFeatSettings.vi
  - setSdoStmFeedbackType.vi
  - setSdoStmInfoData.vi
  - setSdoStmMotorEncoder.vi
  - setSdoStmMotorSettings.vi

## 3.2 EL73x2

This class covers the DC motor output stage terminals EL7332 and EL7342

These following VIs are included in the library:





## 4 Support

For support contact:

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