



Drive Controlled Homing

Software Change Notification

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1 Summary

With the TwinCAT TriaLink library 3.10.0, the drive controlled homing is now taken the gear factor into account so that this works the same as for all other referencing methods.

The change on the library can have an impact on customer applications. To prevent this unexpected impact when updating the library, the input variable *'referencePosition'* of the Axis object has been renamed to *'referencePos'* and causes a compile error.

2 Applications Affected

Any customer application using the drive controlled homing with a gear factor not equal 1.

3 Description of Change

The input variable *'referencePosition'* of function block *'TL_Axis0'*, respectively from the inherited function blocks *'TL_AxisSlow'* and *'TL_Axis2'*, has been renamed to *'referencePos'*.

Before the fix, the drive controlled homing didn't take the gear factor into account, which has now been fixed with library 3.10.0.

4 Consequence of the Software Change

Customer applications using the variable *'referencePosition'* of function block *'TL_AxisSlow'* or *'TL_Axis2'* must now pass the value for reference position in PLC units instead of drive units when they use the drive controlled homing. The gear factor is now taken into account internally for all referencing methods.

The existing code has to be changed to use the new variable name *'referencePos'* because the library causes a compile error.