

Setting Fast Registration Scanning on ZX5

How to set the electrical and software settings to allow fast registration scanning on a ZX5 to detect motor slippage issues

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GX Axis

GX axis should be set to trigger the fast registration the position as the new bar is pulled to its early locations - this will involve a high to low transition on the GX axis datum sensor

Wiring

Because the GX sensor is connected to a fieldbus box, it will need to be rerouted to terminate in the module cabinet, as the input signal will need to feed both an input slice, and feed into the fast registration input on the drive itself

Visual Studio Project

The

BECKHOFF New Automation Technology

Basic settings | Scaling | Run motor | Tune drive | Diagnostics | Advanced

Motor AM8032-1E10-0000: Rotary synchronous AC motor

Feedback 1 OCT single turn; Rotary

Brake

Load J: 0 kgcm²; Feed constant: 60 mm / motor rotation

Digital I/Os I3: PUI-Edge;

Digital I/O	Positive limit switch	Negative limit switch	Probe unit 1	Probe unit 2	Hardware enable
Digital input 1 *					
Digital input 2 *					
Digital input 3 Function online settings: PUI-Edge	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digital input 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* this digital input is reserved for the safety function.

Error List

Entire Solution | 38 Errors | 0 of 10 Warnings | 0 of 49 Messages | Clear | Build + IntelliSense

Description
08/06/2021 09:56:58 664 ms V & X Axes Drive (AX8206-0100-0): (0x3220) Ch B, AxisMainSlot: DC link under-voltage
09/06/2021 05:56:26 970 ms V & X Axes Drive (AX8206-0100-0): (0x3220) Ch A, AxisMainSlot: DC link under-voltage
09/06/2021 12:08:51 066 ms R Axis Drive (AX8118-0000-0103): (0x3220) Ch A, AxisMainSlot: DC link under-voltage
09/06/2021 12:08:51 080 ms SX & SR Axes Drive (AX8206-0100): (0x3220) Ch B, AxisMainSlot: DC link under-voltage
09/06/2021 12:08:51 066 ms V & X Axes Drive (AX8206-0100-0): (0x5184) Ch B, AxisMainSlot: Supply DC link circuit is not ready

Activate the project